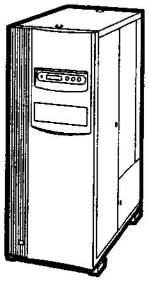
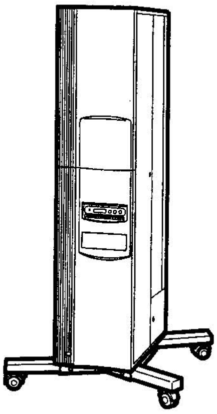
SERVICE MANUAL

CD/DVD LIBRARY

MC-8200U/MC-8600U



MC-8200U



MC-8600U

SPECIFICATIONS

Item		MC-8200U			MC-8600U
Number of stored discs		200			600
Number of magazines		4			12
Operating environment		Temperature: 5°C-35°C (41°F-95°F) Humidity: 10%-80% (no condensation)			
Rated power voltage		AC 120 V-240 V			
Rated power frequency		50 Hz/60 Hz			
Rated current		2.4 A - 1.4 A (max. value), 1.4 A - 0.8 A (6 Drives are loaded)			3.2 A - 1.8 A (max. value), 1.4 A - 0.8 A (6 Drives are loaded)
Power consumption		140 W (Reference value, 6 DVD-RAM drives are loaded)			
Interface		SCSI-2 (Amphenol 50-pin full size)			
Drive slots rack bays		6			
Media size		12 cm discs			
Applicable options	Drives	Available drives	Compatible discs		
		DVD-RAM drive	MC-R400U	Rec/Play	DVD-RAM with 4.7 GBytes/sideand 2.6 GBytes/side
				Play	DVD-ROM, CD-ROM/R, etc.
			MC-R200U	Rec/Play	DVD-RAM with 2.6 GBytes/side
				Play	DVD-ROM, CD-ROM/R, etc.
		DVD-ROM drive	MC-D104U	Play	DVD-ROM, CD-ROM/R, etc.
		CD-ROM drive	MC-D32U MC-D18U	Play	CD-ROM/R, etc.
		CD-R drive	MC-R18U MC-R14U MC-R12U	Rec/Play	CD-R, CD-RW (Records with MC-R18U only)
				Play	CD-ROM/R, etc.
		For the specifications of the drives, refer to their relevant instruction manuals. For other drives, consult your dealer or nearest JVC service center.			
	Carrier	Double-sided disc compatible carrier: MC-CF10U			
	Magazine	Magazine set: MC-M25U (B)			
	Printer	Compatible with color disc printer (MC-AP30U)			
Weight		58kg (Excluding the discs and optional equipment)			104kg (Excluding the discs and optional equipment)

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Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

● Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

2. Parts identified by the ⚠ symbol and shaded (▨) parts are critical for safety.
   Replace only with specified part numbers.
   Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

3. Fuse replacement caution notice.
   Caution for continued protection against fire hazard.
   Replace only with same type and rated fuse(s) as specified.

4. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads

5. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers
   4) Insulation sheets for transistors
   5) Barrier

6. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

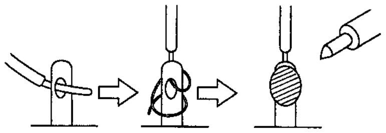


Fig.1

7. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

8. Check that replaced wires do not contact sharp edged or pointed parts.

9. When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

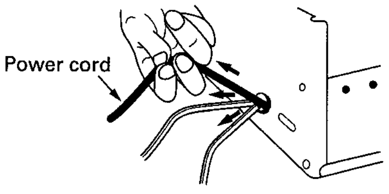


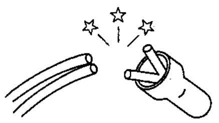
Fig.2

10. Also check areas surrounding repaired locations.

11. Products using cathode ray tubes (CRTs)
    In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector
    In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

    1) **Connector part number** : E03830-001
    2) **Required tool** : Connector crimping tool of the proper type which will not damage insulated parts.
    3) **Replacement procedure**
       (1) Remove the old connector by cutting the wires at a point close to the connector.
       Important : Do not reuse a connector (discard it).



cut close to connector

Fig.3

(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

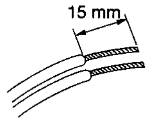


Fig.4

(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

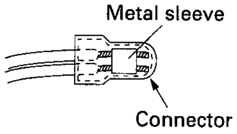


Fig.5

(4) As shown in Fig.6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

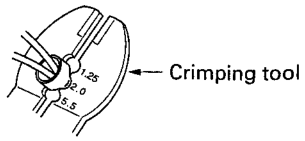


Fig.6

(5) Check the four points noted in Fig.7.

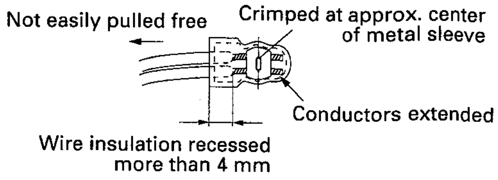

Not easily pulled free
Crimped at approx. center of metal sleeve
Conductors extended
Wire insulation recessed more than 4 mm

Fig.7

● Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. **Insulation resistance test**
   Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

2. **Dielectric strength test**
   Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

3. **Clearance distance**
   When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.

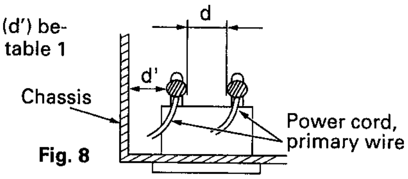


Fig. 8

4. **Leakage current test**
   Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).
   Measuring Method : (Power ON)
   Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.

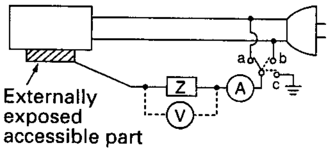


Fig. 9

5. **Grounding (Class I model only)**
   Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).
   Measuring Method:
   Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

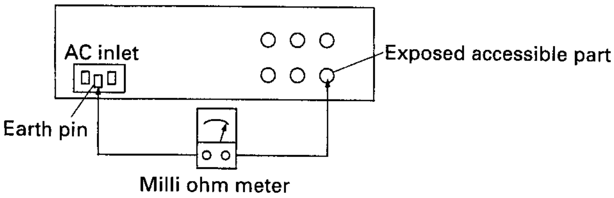


Fig. 10

Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V	Japan	R ≧ 1 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V			AC 1.5 kV 1 miute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	–	AC 900 V 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R ≧ 10 MΩ/500 V DC	AC 3 kV 1 minute (Class Ⅱ) AC 1.5 kV 1 minute (Class Ⅰ)	d ≧ 4 mm d' ≧ 8 mm (Power cord) d' ≧ 6 mm (Primary wire)

Table 1 Specifications for each region

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	1 kΩ	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	0.15 µF 1.5 kΩ	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	2 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Antenna earth terminals
		50 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Other terminals

Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

JVC®

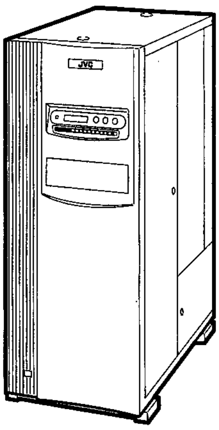
ENGLISH
DEUTSCH
FRANÇAIS
中文

CD/DVD LIBRARY

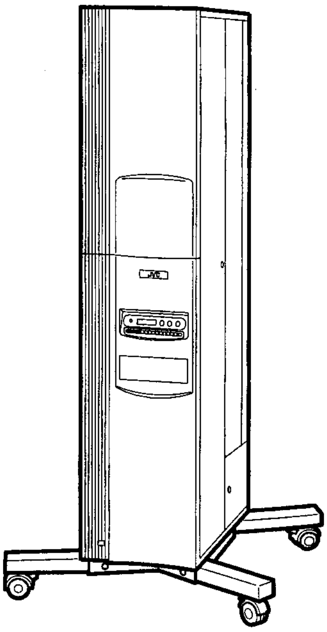
BEDIENUGSANLEITUNG : CD/DVD BIBLIOTHEK
MANUEL D'INSTRUCTIONS : BIBLIOTHEQUE CD/DVD
使用说明书：CD/DVD 光盘库

MC-8200U
MC-8600U

INSTRUCTIONS



MC-8200U



MC-8600U

For Customer Use:
Enter below the Model No. and Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. MC-8200U / MC-8600U
Serial No.

This instruction book is made from 100% recycled paper.

For Europe

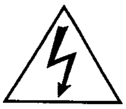
IMPORTANT
The wires in this mains lead are coloured in accordance with the following code:

GREEN - and - YELLOW:	EARTH
BLUE:	NEUTRAL
BROWN:	LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug. proceed as follows. The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked with the letter E or the safety earth symbol ⏚ or coloured GREEN or GREEN-AND YELLOW. The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or which is coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

WARNING–THIS APPARATUS MUST BE EARTHED

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

REPRODUCTION OF LABELS

CLASSIFICATION LABEL, PLACED ON REAR ENCLOSURE.
(Except for the U.S.A. and Canada)

CLASS 1
LASER PRODUCT

Note : Classaification Label is placed on rear panel.

IMPORTANT FOR LASER PRODUCT

1. CLASS 1 LASER PRODUCT
2. **DANGER** : Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION** : Do not open the top cover. There are no user serviceable parts inside the unit: leave all servicing to qualified service personnel.

For North America

Information for Canada
This product complies with D.O.C limits (C.R.C., C. 1374) pertaining to class A digital apparatus.

Informations pour le Canada
Ce produit est en conformité avec les normes D.O.C (C.R.C., C. 1374) concernant les appareils numériques de classe A.

Information for USA
NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device,pursuant to Part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.
This equipment generates,uses,and can radiate radio frequency energy and,if not installed and used in accordance with the instruction manual,may cause harmful interference to radio communications.Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CE

Warning
This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Note
Place a cover on the terminal when not in use.
Static may cause a malfunction or failure of the unit.

CAUTION
Do not put your hand in. The hand may be trapped and injured as a result.

Thank you for purchasing the JVC MC-8200U/8600U CD/DVD Library

Special Features

The MC-8200U/8600U CD/DVD Library is a highly reliable and durable disc changer equipped with large capacity and high access speed to cope with the ever-changing needs of the rapidly developing information network age. This model is suitable for business as well as home use.

- **Capacity**
  Up to 600[1] optical discs[1] (12 cm discs) can be accommodated.
- **Double-sided disc compatibility**
  DVD-RAM double-sided discs may also be accommodated, by adding an optional carrier[4].
- **Six drive bay slots**
  Six drive bay slots are provided so up to 6 drives[3] can be installed.

[1] **MC-8600U (200 discs with the MC-8200U).**

[2] **Media compatible with the library varies depending on the installed drive types. For details, refer to the instruction manuals of the relevant drives.**

[3] **For the compatible optional drives, see Specifications on page 33.**

[4] **MC-CF10U: Optional Carrier**

CAUTION

This product does not include drives. Optional drives should be purchased and installed before using the product. After installing, adding or replacing drives, be sure to execute the automatic drive detection mode as described on page 24. Malfunctions may occur if this procedure is not performed.

CAUTION

This equipment is supplied with an internal mechanism lock and protective materials. The lock should be opened and the protective materials removed before use.
Be sure to perform the unlocking and removal operations in accordance with the corresponding information in this manual. (→Page 11,12,13)

CAUTION

The magazines and trays used with the MC-1000/2000 series CD-ROM Library (MC-M15U) and MC-7000 series DVD-RAM (MC-M25U) are not compatible with those used with the MC-8000 series CD/DVD Library. Do not interchange the magazines and trays between these models, as this will damage the equipment.

CAUTION

If a media that is not compatible with any of the installed drives is used in the library, malfunctions will result. To prevent this happening, be sure to check the instruction manuals of the optional drives in order to confirm that the media to be accommodated is compatible with the drive.

PACKAGED ITEMS

The following table shows the items provided in the package. Always check thoroughly that all the items are present when unpacking.

Item	Qty	MC-8200U	MC-8600U
Main unit	1	O	O
Door opening/closing keys	2	O	O
Main unit power cord (2.5 m)	2	O	O
Casters	4	–	O
Clamp filters (with belt)	2	O	O
Instructions (this manual)	1	O	O
Caster attaching procedure	1	–	O

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1. PRECAUTIONS

■ Installation and handling precautions

(1) Opening the transport lock

- Make sure that the transport lock is released and all transport protective materials are removed before turning on the power. Failure to do so will result in equipment malfunction.

(2) Location of installation

- Do not install the equipment near a source of vibration such as motor, engine or loudspeaker. They may adversely affect the equipment performance.
- If the equipment is to have a fixed installation, we advise you to give sufficient allowance for space so that extension and replacement of optional units and other operations such as replacement and maintenance can be easily performed. For details, please consult your dealer or nearest JVC-authorized service agent.

(3) Condensation

- If the equipment which has been left in a cold room for a long period of time and is moved to a warm room or if the temperature of the room suddenly increases, condensation may occur on a mobile part, optical pickup or a disc inside the equipment with a disabling effect. If this occurs, do not use the equipment for a few hours before starting it again.

(4) Interference with reception of other devices

- When this equipment is used near a radio receiver such as a radio, television or BS tuner, reception of radio waves on these these devices may experience interference.

(5) Use in a strong radio wave environment

The equipment may not function properly if it is used in a strong radio wave environment, for example near an illegal radio station or a broadcasting station. If this happens, please consult your dealer or nearest JVC-authorized service agent.

(6) Compatible media

Media compatible with the MC-8200U/8600U varies depending on the drive in which it is accommodated. For details, refer to the instruction manual of the relevant drive.

(7) Installation environment

- This equipment has been designed with consideration for dust protection, but its structure is not dust-proof. Therefore, if it is used in an environment where cigarette smoke and/or dust are present, the lens of the drive or a disc will become dirty and stop functioning correctly. Using the equipment in these conditions should be avoided. If, however, you have to use it in a dusty environment, make sure to carry out 'maintenance & regular inspection' at an earlier interval.
- If the equipment is used outside of the suitable temperature and humidity range, the drive life may become greatly shortened. Please make sure to use the equipment in an appropriate environment.

(8) Backup

- JVC cannot accept responsibility for any loss of data and/or any other direct and indirect damage caused by the use or malfunctioning of this equipment. We therefore strongly advise that all important data should be fully backed up in case of unexpected loss.
- When this equipment is used with a system which runs continually for 24 hours or which cannot be turned off at all, we recommend a redundancy design such as [a] back-up system on the system.

(9) Never take the equipment apart.

- Fire and electric shock may result. Do not try to take apart or modify this equipment or the drive units inside.

(10) Cleaning

- Do not use solvents (paint thinner, benzene, etc.), cleaning products containing abrasives, anti-static agent, cloth soaked in detergent and silicon cloth. They can cause discoloration.
- Wipe-clean using a well-squeezed cloth which has been soaked in a neutral detergent.

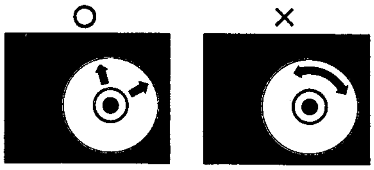
■ Disc handling precautions

A disc is made of plastic material which can be easily damaged. If the discs are damaged or become dirty, it may lead to malfunction such as incorrect data readout. To prevent this handle the discs with care so that they will stay free of damage, stain, dust/dirt adhesion, warping, etc.

(1) Do not touch the reflective surface (data surface) of a disc directly with your hand. Be sure to use special care when handling double-sided discs.

(2) Use commercially available cleaning kits such as a CD cleaner to remove dust and/or dirt from the disc surface.

- Gently wipe-clean the disc surface without scratching it. (Make sure to wipe from the centre of the disc towards the outer edge. Never use a circular motion.)
- Always wipe from the centre to the outer edge.



* Always from the centre to outer edge

(3) Do not use chemicals for disc cleaning.

- Never use any solvents other than those included in the cleaning kits.
- Never use analogue record cleaning fluid, benzene, alcohol or anti-static agent.

(4) Do not damage the label surface

- Damage to the label surface also affects the data surface immediately underneath it.
- Do not attach pieces of paper or adhesive tape to either side of the disc.
- When you need to write on the label surface, please use a permanent ink felt-tip pen.
  Writing implements with hard tips such as ball-point pens and pencils should not be used as they will damage the surface.

(5) Periodical cleaning of the discs is recommended.

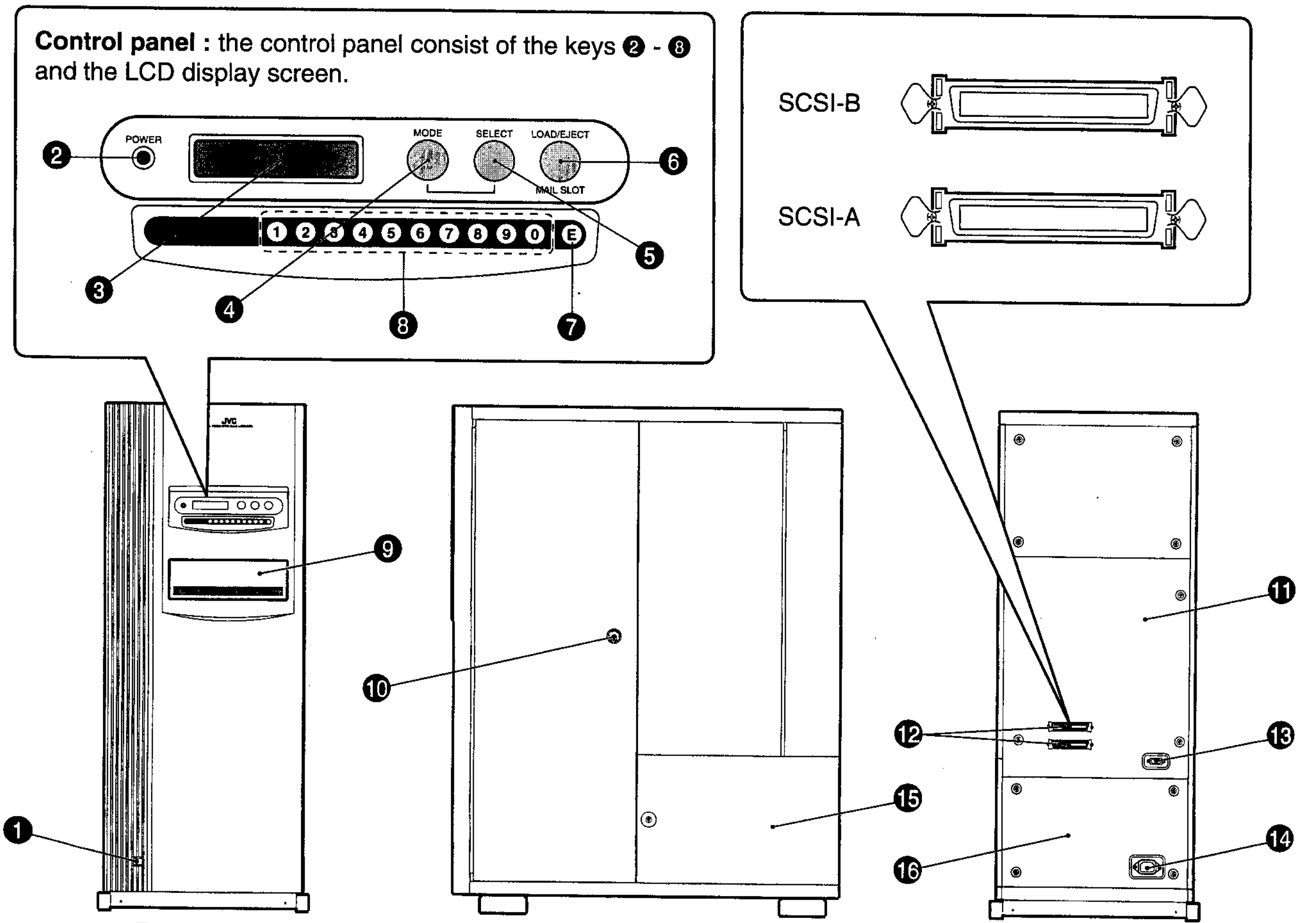
- Periodical disc cleaning may be required depending on the equipment installation environment and disc handling method.

2. NAMES AND FUNCTIONS OF THE PARTS

2-1. Front panel, right side panel, rear panel

❶ POWER switch	Turns the main unit power on/off. " I ":ON. " ○ ":OFF.
❷ POWER Indicator	Lights up when the POWER switch is turned on. Blinks in case of error during operation.
❸ LCD Display Panel	Shows information using alphanumeric characters.
❹ MODE key	Used for LCD display page selection and other operations.
❺ SELECT key	Used for switching displayed information and other operations.
❻ LOAD/EJECT key	Opens or closes the mail slot.
❼ ENTER key	Used for LCD page selection and other operations.
❽ 10-key	Used for selecting tray Nos. and changer SCSI ID Nos. for import/export operations.
❾ Mail slot	Used for disc insertion/ejection
❿ Key cylinder	After completing the door opening mode, insert a key and turn it counterclockwise to open the door.
⓫ Rear panel	Opened and closed when installing or replacing drive units.
⓬ SCSI connector	One SCSI-2 connector port system (A: IN, B: OUT) is provided as standard.
⓭ RS-232C connector	9-pin D-sub connector (plug) for use in maintenance.
⓮ AC inlet (main unit)	Insert the provided power cord and plug the other end of the power cord to a 120 V-240 V, 50 Hz/ 60 Hz AC power outlet.
⓯,⓰ Side panel (Printer)	To be removed when incorporating the optional MC-AP30U color disc printer.

■MC-8200U (MC-8600U)



Control panel : the control panel consist of the keys ❷ - ❽ and the LCD display screen.

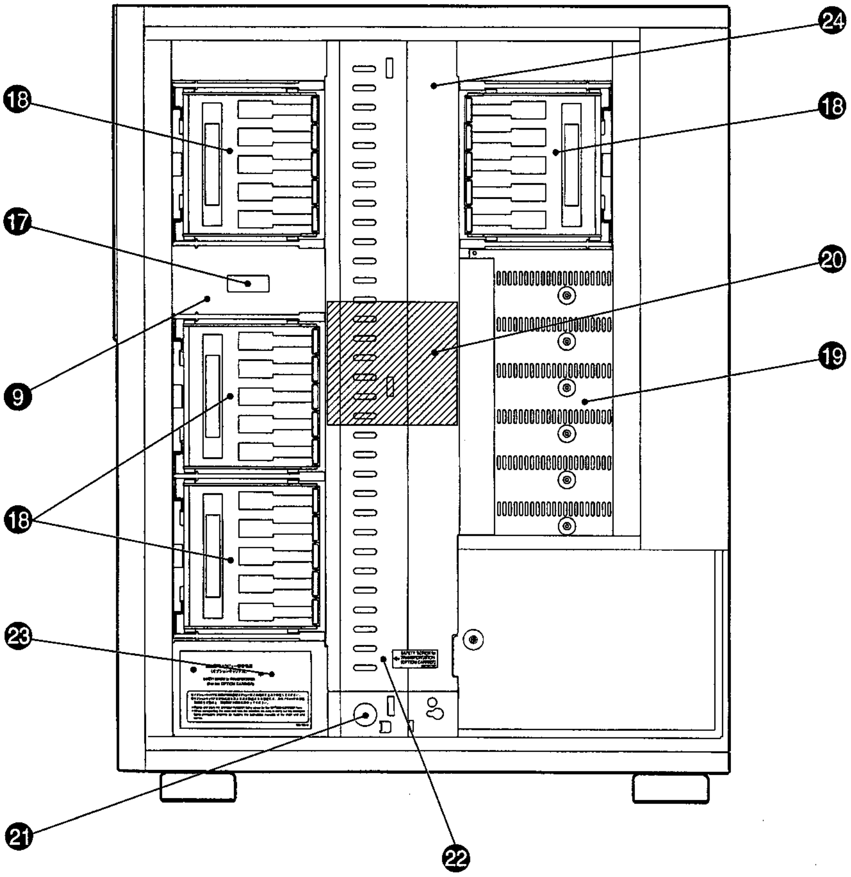
Front panel **Right side panel** **Rear panel**

2-2. Interior

⑨ **Mail slot**	Used for disc insertion/ejection.
⑰ **Mail slot transport lock**	Locks the mail slot during transport.
⑱ **Magazines**	Each magazine contains 50 trays accommodating up to 50 discs.
⑲ **Drive bays**	Accommodation for up to 6 drive units is compatible with this product. The bays are numbered 1, 2, 3,4 5 and 6 from the bottom.
⑳ **Carrier**	Transports the trays (discs) between the magazines and the mail slot, drives or printer.
㉑ **Carrier transport lock**	Locks the carrier during transport.
㉒ **Optional carrier transport lock**	To be locked before transport when the MC-CF10U Optional Carrier is installed.
㉓ **Transport lock screw storage hole (for optional carrier)**	Attach the transport lock screw provided with the MC-CF10U Optional Carrier to this hole.
㉔ **Center panel**	To be removed only for maintenance, etc. Do not normally remove this panel, as it provides hazard protection to the parts inside.

- The system for transporting the trays (discs) between the magazines and the mail slot or drives or printer using the carrier is generically referred to as the "changer".

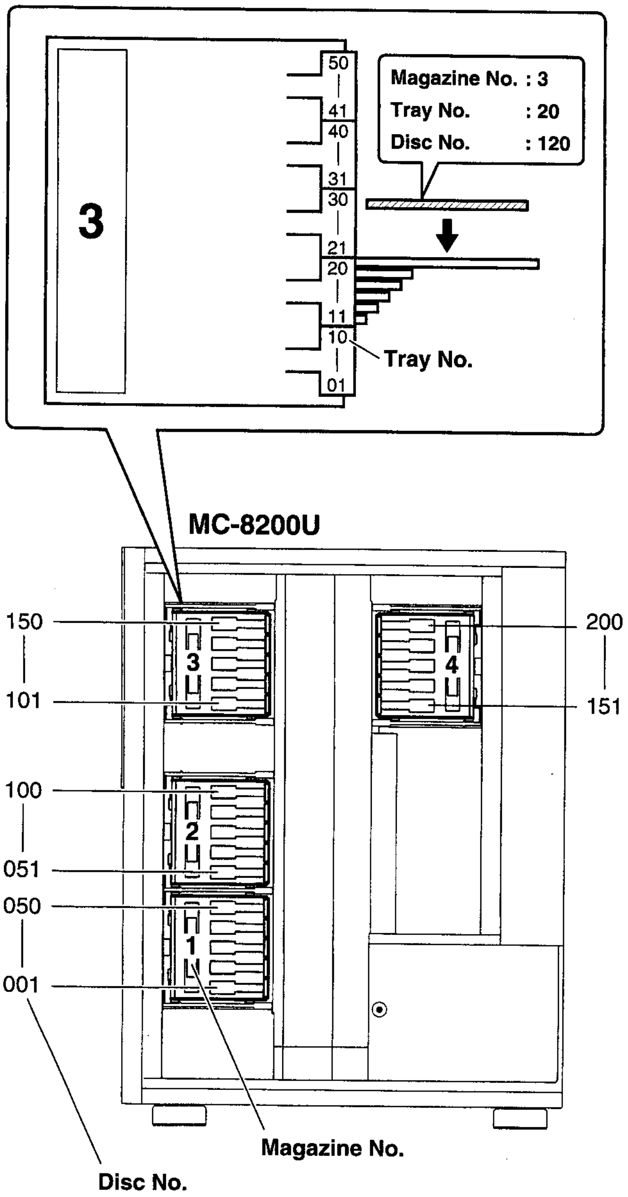
Right side panel (when the door is removed.)

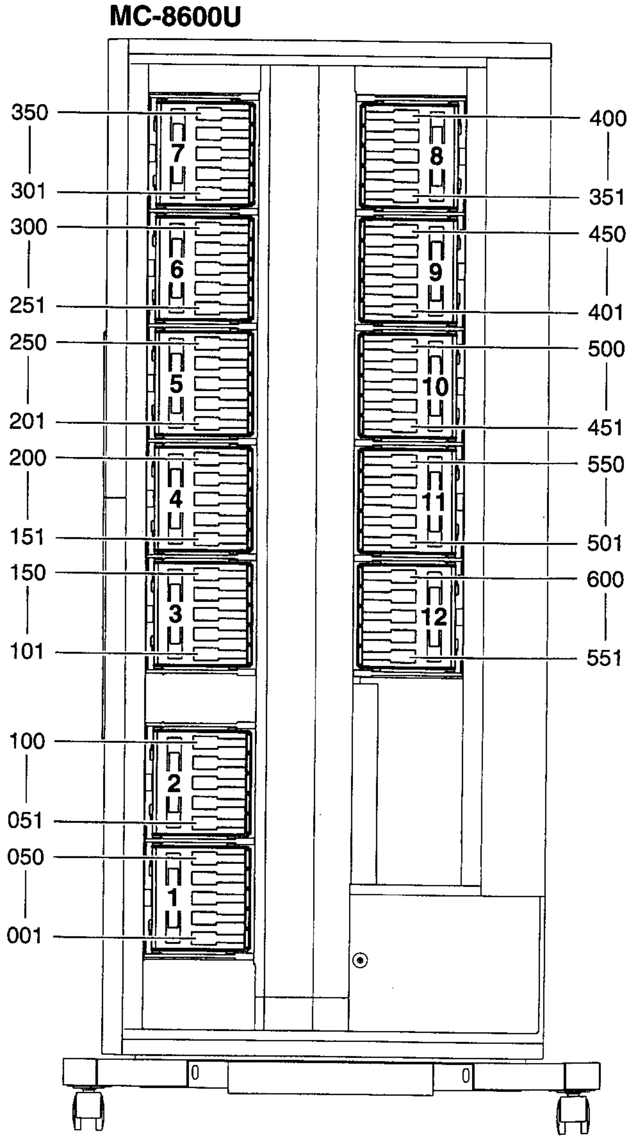


2-3. Magazine numbers, tray numbers, disc numbers

The internal layout of the magazine and the numbers assigned to the magazines, trays and discs are as shown below.

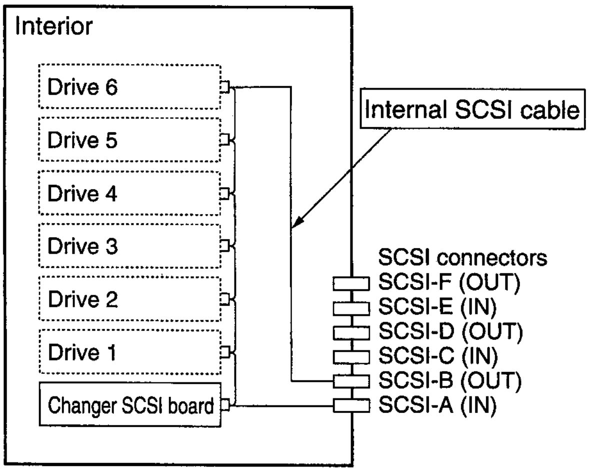
■Magazine number	This is the number assigned to each of the 4 or 12 sets of magazines. The error message displayed when a magazine is inserted incompletely refers to the magazine number. (See page 26) Note, magazine number assignments are different from previous models (MC-1000, MC-2000 and MC-7000 Series).
■Tray number	This is the 2-digit number assigned to each of the 50 trays in each magazine. The combination of a tray number and magazine number corresponds to a disc number. For example, disc number 120 can also be represented as the disc in tray number 20 of magazine number 3. In this way, the disc can be located in the 20th slot from the bottom of magazine 3.
■Disc number	This is the 3-digit number assigned serially to every disc in all magazines and trays, starting from disc number 1 in tray 01 of magazine 1 up to disc number 200 or 600. The error messages usually refer to the disc numbers. (See page 29)


3
50
41
40
31
30
21
20
11
10
01
Tray No.
Magazine No. : 3
Tray No. : 20
Disc No. : 120
MC-8200U
150
101
3
200
151
4
100
051
2
050
001
1
Magazine No.
Disc No.


MC-8600U
350
301
7
300
251
6
250
201
5
200
151
4
150
101
3
100
051
2
050
001
1
400
351
8
450
401
9
500
451
10
550
501
11
600
551
12

2-4. Internal SCSI cable

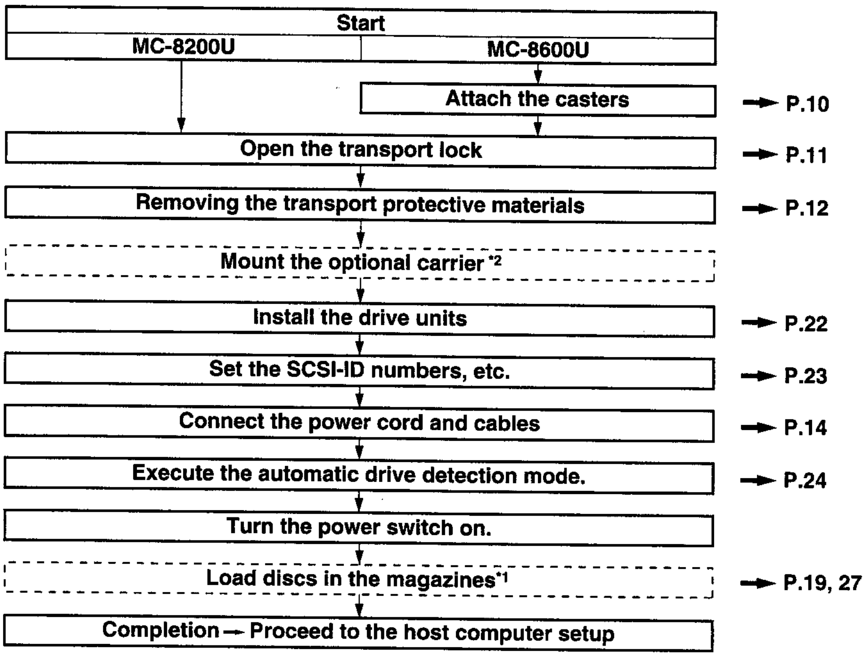
The SCSI connections inside the main unit (the Changer) are explained below:
The SCSI board which controls the changer and the drive units are daisy-chain (connected by the internal SCSI cable). This cable is approximately 1.5 m (4.9 ft) long.


Interior
Drive 6
Drive 5
Drive 4
Drive 3
Drive 2
Drive 1
Changer SCSI board
Internal SCSI cable
SCSI connectors
SCSI-F (OUT)
SCSI-E (IN)
SCSI-D (OUT)
SCSI-C (IN)
SCSI-B (OUT)
SCSI-A (IN)

- **Terminate** the physical end of the SCSI bus. When using the terminator provided with one of the installed drives, read the relevant drive instruction manual before termination.
- In order to improve the communications stability via the SCSI bus, it is recommended to use an external active terminator.

3. SETUP

The standard setup procedure is as shown below. Set up the equipment according to the procedure shown for each model.


Start
MC-8200U
MC-8600U
Attach the casters
→ P.10
Open the transport lock
→ P.11
Removing the transport protective materials
→ P.12
Mount the optional carrier *2
Install the drive units
→ P.22
Set the SCSI-ID numbers, etc.
→ P.23
Connect the power cord and cables
→ P.14
Execute the automatic drive detection mode.
→ P.24
Turn the power switch on.
Load discs in the magazines*1
→ P.19, 27
Completion → Proceed to the host computer setup

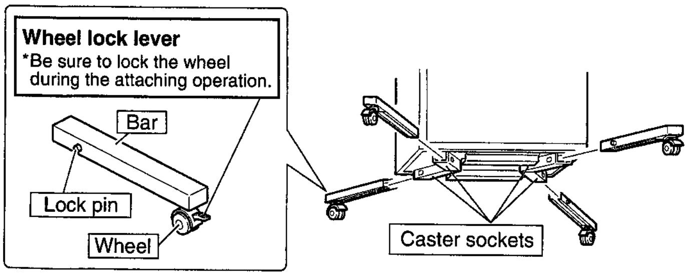
[1] A large number of discs can be loaded quickly(bulk load).

[2] Please have your dealer or nearest JVC service center perform this task.

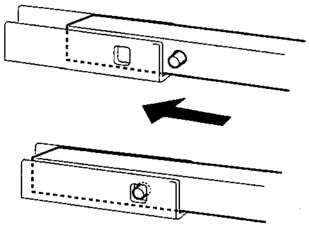
3-1. Attaching the casters

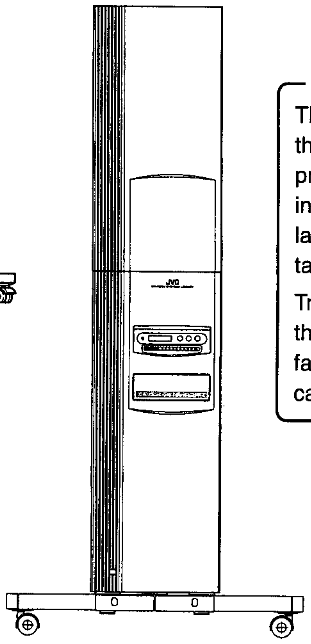
The **MC-8600U** comes standard with designated casters.
Three or more persons should attach these casters by following the procedure below.
Please also refer to the caster attaching procedure manual which is provide with the equipment.

1. After unpacking the equipment, take out the 4 casters from inside the bottom cushioning material.
2. Hold each caster with the wheel side down, and insert it into a caster socket on the bottom panel while sliding the lock pin as shown below.


Wheel lock lever
*Be sure to lock the wheel during the attaching operation.
Bar
Lock pin
Wheel
Caster sockets

3. The caster is attached completely when the lock pin reaches and engages with the hole on the caster socket.
   - Make sure that the pin does not come out even when the caster is pulled strongly.





CAUTION:

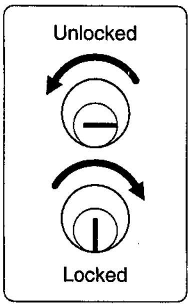
The casters provided together with the **MC-8600U** are exclusively for preventing the equipment from falling over and for changing its installation place and not for transportation.

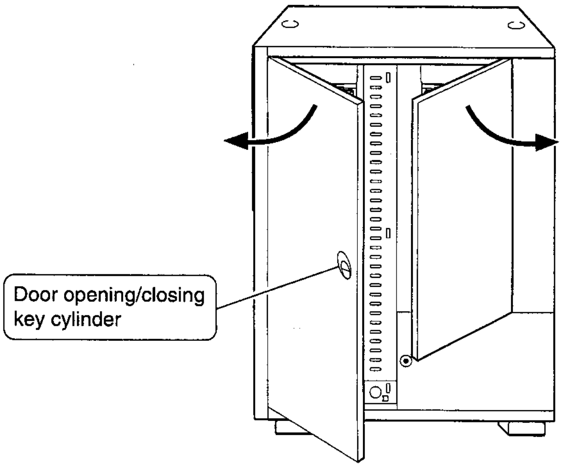
Transporting the **MC-8600U** on these casters on an uneven surface over a long distance may cause them to be damaged.

WARNING	Insert the casters until they are locked completely. Should an incompletely attached caster comes out, the equipment may fall over and could cause an injury and damage to the equipment.

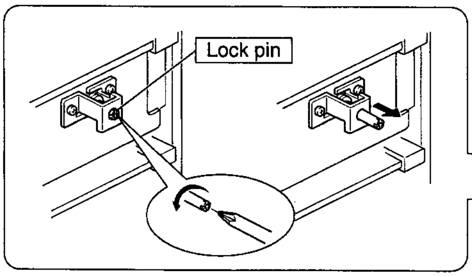
3-2. Opening the transport lock

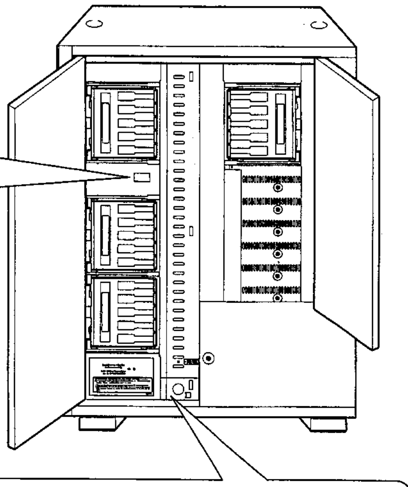
1. Open the door by inserting the key and turning it counterclockwise (90°) to unlock the door.



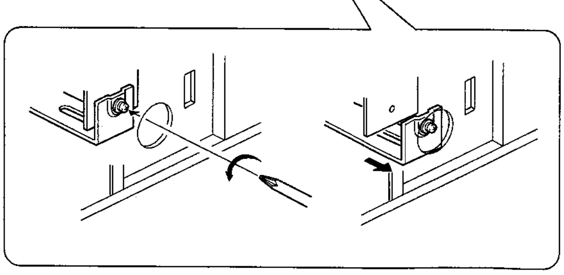


2. Open the transport lock of the mail slot.
   - Using a philips screwdriver, continue to turn the lock counterclockwise until the lock is completely disengaged and moves outwards.





3. Open the transport lock of the carrier.
   - Continue to turn the screw counterclockwise to loosen it until the metal device retaining it is disengaged and moves outwards.



Note:
When using the **MC-CF10U** Optional Carrier, read **"3-4. Removing the optional carrier transport lock screw"** on page 13 before continuing on.

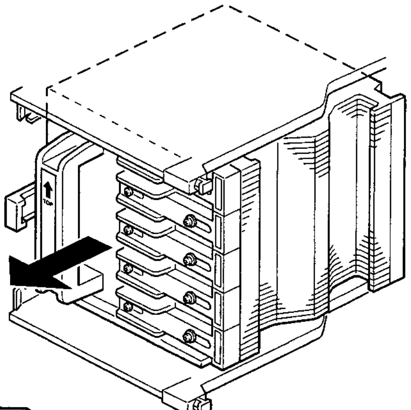
Proceed to the operation in the next page without closing the door.

- In the case of re-transporting, lock the transport lock as follows:
  1) Remove all the discs and turn off the power.
  2) Turn on the power while pressing the "1" of the 10-key pad and enter the PACKING mode.
  3) Turn off the power as soon as the "END" display appears on the LCD screen.
  4) Fix the transport lock as described in ***2*** and ***3*** above.
  5) When using the **MC-CF10U** Optional Carrier, read **"3-4. Removing the optional carrier transport lock screw"** on page 13 before continuing on.
  6) Re-attach the protective transport materials. (➜ See page 12.)

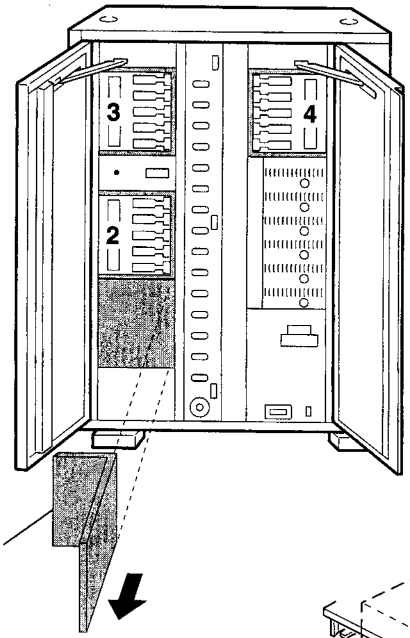
3-3. Removing the transport protective materials

After opening the transport lock, proceed to the following steps without closing the door.

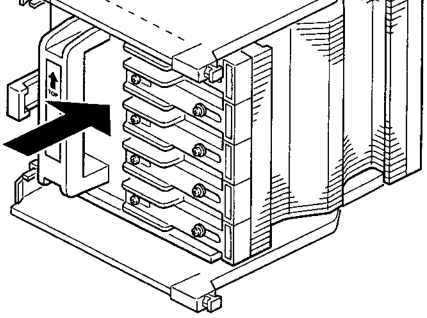
1. Remove magazine No. 1.
   (➡ See "**9-1. Ejecting/loading the magazines**" on page 26.)



2. Pull out the protective material forwards.



3. Load magazine No. 1.
   (➡ See "**9-1. Ejecting/loading the magazines**" on page 26.)



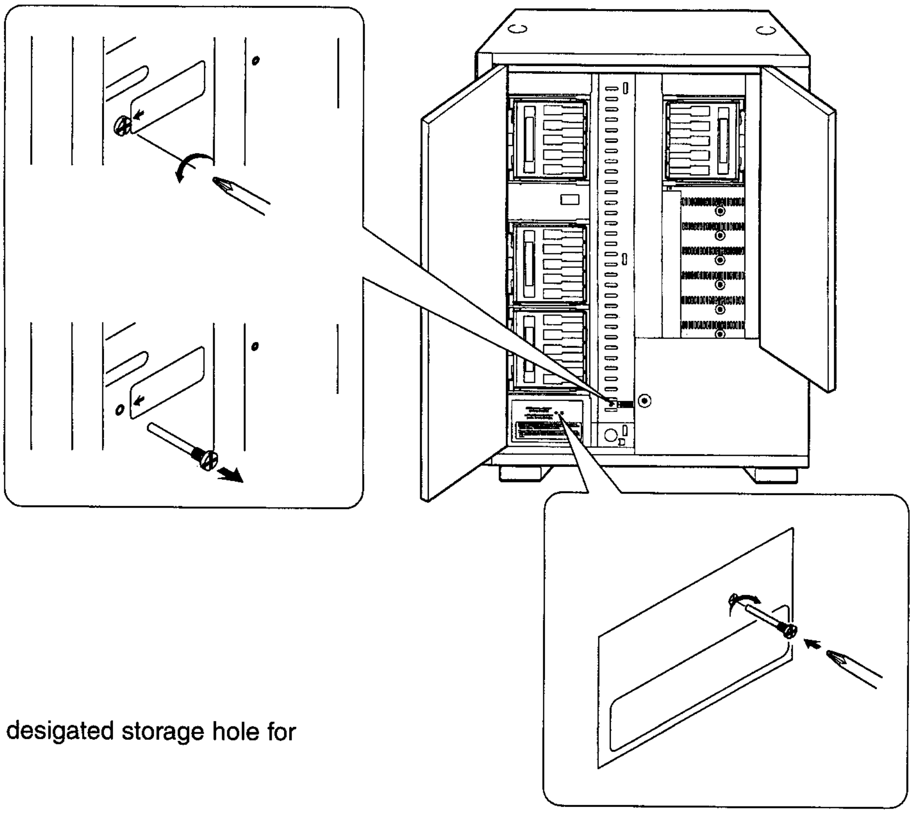
4. Repeat the same operation for each of the remaining magazines.

- In the case of re-transporting, it is necessary to remove all the discs and re-attach the protective transport materials using the reverse procedure to the above. When this operation is required, please consult your dealer or nearest JVC-authorized service agent.
- Although the MC-8200U/8600U is compatible with the optional **MC-AP30U** Color Disc Printer, it should be removed from the system before transporting it. Otherwise, the printer and its outer panel may get damaged during transport.

3-4. Removing the optional carrier transport lock screw

When the **MC-CF10U** is installed, its special transport lock should be removed in addition to its being unlocked as detailed in "**3-2. Opening the transport lock**" on page 11. Use the following procedure when unlocking the optional carrier transport lock.

1. Remove the transport lock screw (for optional carrier).



2. Insert the removed screw into the desigated storage hole for the transport lock screw.

- If the system is transported with the **MC-CF10U** Optional Carrier installed, refer to "**3-2. Opening the transport lock**", execute the packing mode and clamp the above-mentioned transport lock screw.

3-5. Installing drives and settings SCSI-ID No., etc.

1. Installing drives
   Install the drives (➡ See "**7. DRIVE UNITS**" on page 22).

2. Initial setting of SCSI-ID No., etc.

   The default setting of the SCSI-ID No. of the MC-8200U/8600U is "0".
   Set the SCSI-ID No. according to your system.

   - To change the SCSI-ID No. of the MC-8200U/8600U ➡ Read "**8. SETTING THE SCSI-ID NUMBERS OF THE MAIN UNIT**" on page 25.
   - To set the SCSI-ID Nos. and termination of drives ➡ Read the instruction manuals of the installed drives.

- As the MC-8200U/8600U should be turned on to allow its SCSI-ID No. to be set, read "**3-6. Connecting the power cord and cables**" on page 14 and connect the power cord before proceeding.
- When using an external active terminator, set the termination settings of the installed drives to OFF.

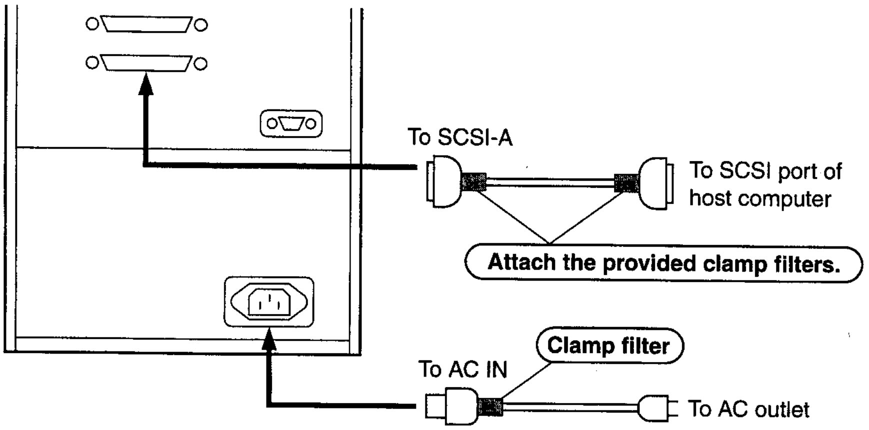
3-6. Connecting the power cord and cables

CAUTION

Turn OFF the power of all equipment before starting connections.
Connecting the equipment while power is ON may lead to a malfunction.

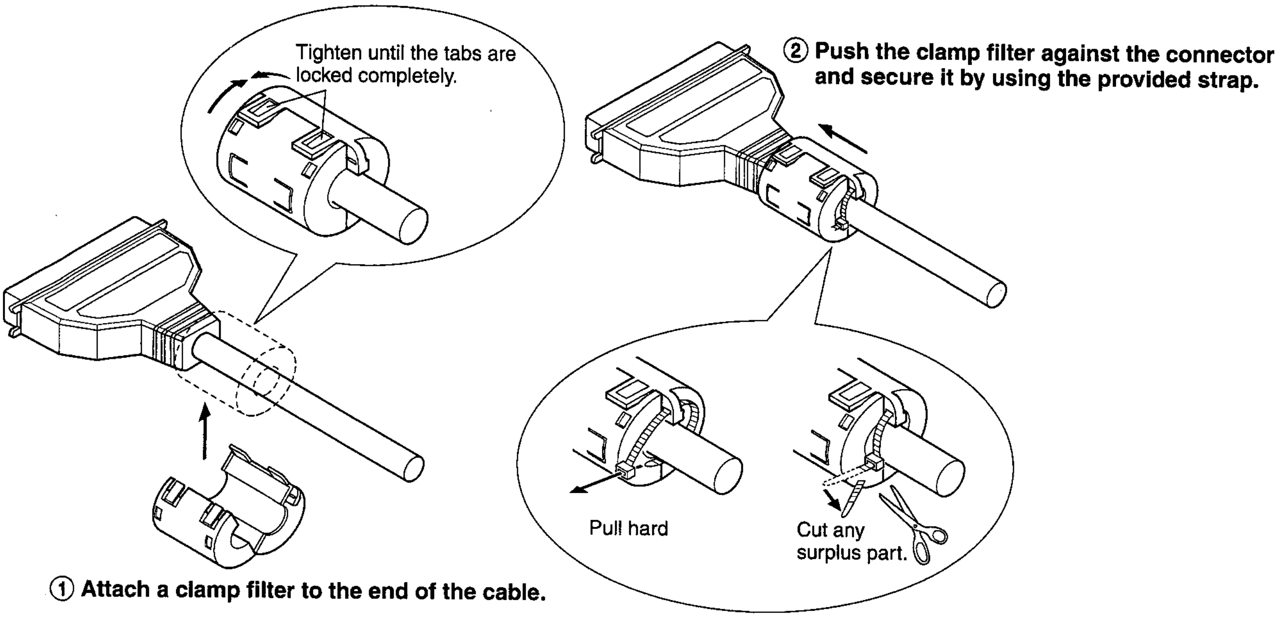
For European Region

Always use the power cord provided together with the MC-8200U/ 8600U. When replacing the power cord, be sure to install the provided clamp filter with the new power cord.


To SCSI-A
To SCSI port of host computer
Attach the provided clamp filters.
Clamp filter
To AC IN
To AC outlet

WARNING	Always use the power cord provided by JVC. The library system has been designed to conform to "Insulation category Class 1". In order to assure safety at all times, be sure to ground the system before use. If other types of power cords other than the specified cord are used, they may overheat, burn and cause a fire.

Attaching the clamp filters


Tighten until the tabs are locked completely.
Pull hard
Cut any surplus part.

② **Push the clamp filter against the connector and secure it by using the provided strap.**

① **Attach a clamp filter to the end of the cable.**

- The allowable length for the SCSI cable inside the equipment is about 1.5 meters. In the case of SCSI-2 10 Mbytes/sec. sync operation, if the total length of the SCSI cabling including those cables outside the equipment exceeds 3 meters, a malfunction may result. However, if the SCSI-2 5 Mbytes/sec. async mode is used the total length of the SCSI cabling should be no more than 6 meters.
- Use a shielded SCSI cable with high-impedance specifications and be sure to attach the provided clamp filter to the cable. Using other type of cable or using a cable without a clamp filter may cause radio wave interference and a malfunction.

4. CONTROL PANEL OPERATIONS AND LCD DISPLAY

The switch operation and LCD display system has three operation and display modes as described below.

■**Normal display** ..... This mode includes two patterns, one of which is displayed automatically when the equipment starts up normally. The disc numbers in the drive units are displayed in real time.

■**Menu display** .... This mode allows you to start user operations such as SCSI-ID No. checking and setting, internal history display and door/panel opening.

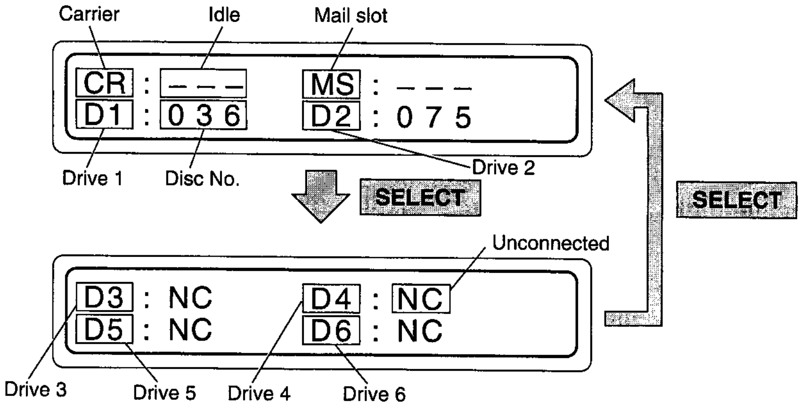
■**Event display** .... This mode overrides other modes in case of an event such as initialization after startup, mail slot operations, setting up the door/panel opening mode or appearance of errors.

4-1. Normal display

Pattern 1 is displayed automatically when the startup has succeeded normally. The display pattern will change every time the SELECT switch is pressed.

[Pattern 1]

[Pattern 2]


Carrier
Idle
Mail slot
CR : – – –
MS : – – –
D1 : 0 3 6
D2 : 0 7 5
Drive 1
Disc No.
Drive 2
SELECT
SELECT
Unconnected
D3 : NC
D4 : NC
D5 : NC
D6 : NC
Drive 3
Drive 5
Drive 4
Drive 6

4-2. Menu display

Pressing the MODE key switch during normal display starts the menu display.
Select a menu by pressing the SELECT key and enter the selection by pressing the MODE key again.

① **NORMAL DISPLAY**
(➡ See "4-1. Normal display" on this page.)

② **ERROR DISPLAY**
(➡ See "10-4. Error history display" on page 31.)

③ **ID No. DISPLAY**
(➡ See "8-1. Display for checking the SCSI ID numbers" on page 25.)

④ **PANEL OPEN**
(➡ See the instruction manual of the optional MC-AP30U Color Disc Printer.)

⑤ **DOOR OPEN MODE**
(➡ See "5. Door Opening/Closing" on page 18.)

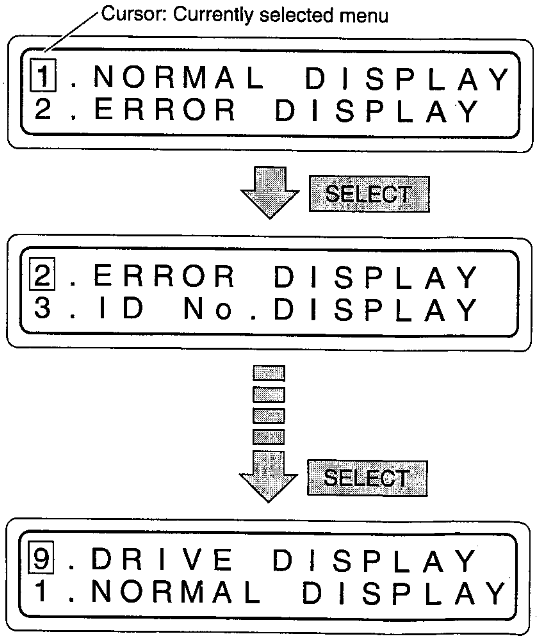
⑥ **ID No. SET MODE**
(➡ See "8. Setup of SCSI ID number of the main unit" on page 25.)

⑦ **COUNT DISPLAY**
(➡ See "11. Access counts" on page 32.)

⑧ **IMPORT/EXPORT**
(➡ See "6-2. Import/export operation" on page 20.)

⑨ **DRIVE DISPLAY**
(➡ See "7-7. Drive type display" on page 24.)

⑩ **PRINTER MODE**
- Display only when the optional MC-AP30U Color Disc Printer is installed.


Cursor: Currently selected menu
1. NORMAL DISPLAY
2. ERROR DISPLAY
SELECT
2. ERROR DISPLAY
3. ID No. DISPLAY
SELECT
9. DRIVE DISPLAY
1. NORMAL DISPLAY

4-3. Event display

① Power on

```
POWER ON
```

② During initialization

```
INITIALIZING
```

When the MC-CF10U Optional Carrier is installed

```
INITIALIZING
FLIP CARRIER
```

③ Error occurrence (➡ See "10-2. Error code list" on page 30.)

```
ERROR OCCURRED!
```

Displayed alternately. ↔

```
DISC=124
CODE=CU-04
```

④ During door opening (➡ See "5. Door Opening/Closing" on page 18.)

```
EXECUTING DOOR
     OPEN PROCESS
```

→

```
THE DOOR
     CAN BE OPENED
```

⑤ When door is open (➡ See "5. Door Opening/Closing" on page 18.)

```
DOOR OR PANEL
     IS OPEN
```

Door closing →

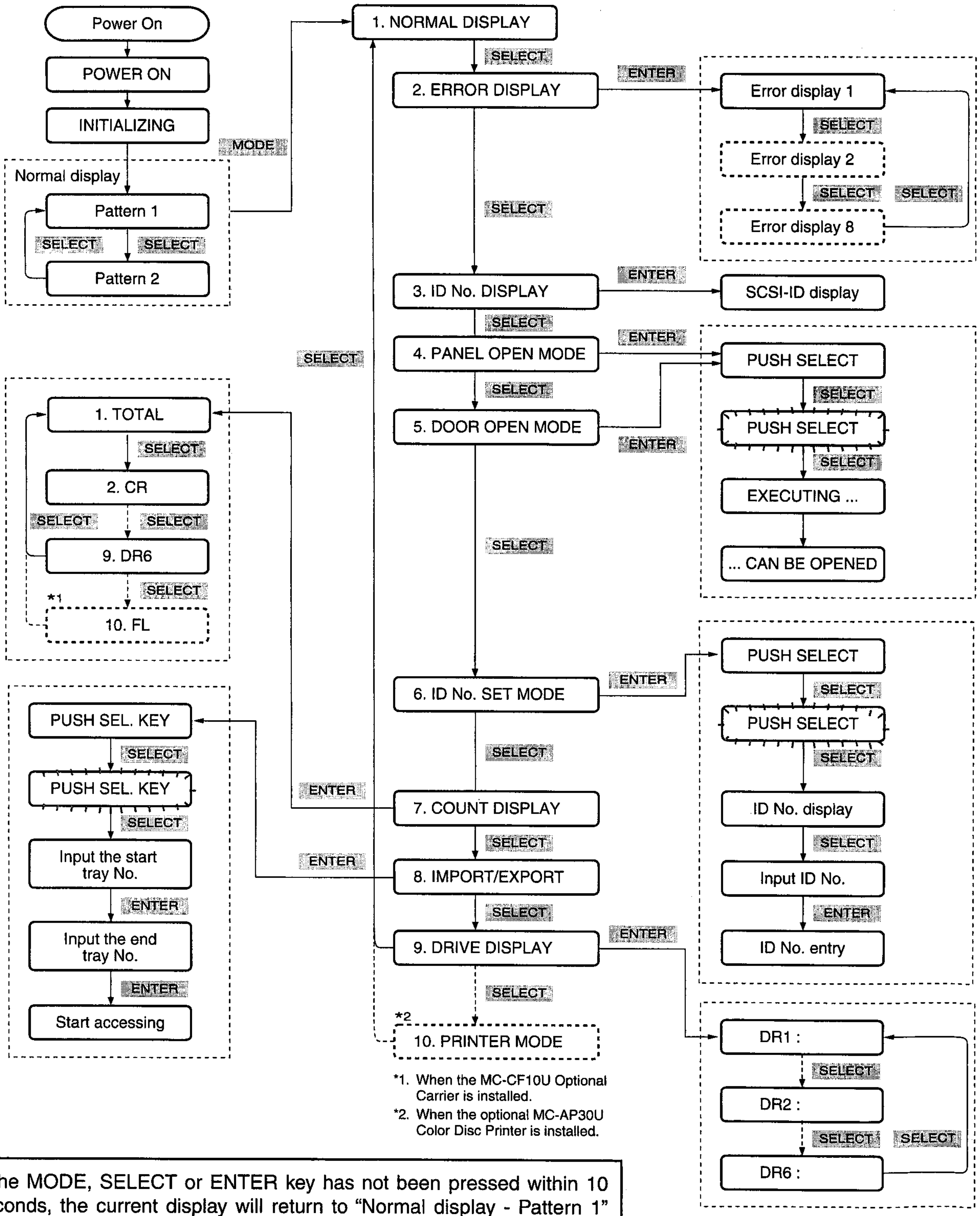
```
PUSH ENTER KEY
TO RESUME
```

⑥ During mail slot operation (➡ See "6. Mail Slot" on page 19.)

```
EXPORT DONE
PUSH LOAD KEY
```

4-4. Display and operation sequence

The sequence of display and operation after turning the power on is as shown below.


Power On
POWER ON
INITIALIZING
MODE
Normal display
Pattern 1
SELECT
SELECT
Pattern 2
1. NORMAL DISPLAY
SELECT
2. ERROR DISPLAY
ENTER
Error display 1
SELECT
Error display 2
SELECT
SELECT
Error display 8
SELECT
3. ID No. DISPLAY
ENTER
SCSI-ID display
SELECT
4. PANEL OPEN MODE
ENTER
PUSH SELECT
SELECT
PUSH SELECT
SELECT
EXECUTING ...
... CAN BE OPENED
SELECT
5. DOOR OPEN MODE
ENTER
SELECT
SELECT
1. TOTAL
SELECT
2. CR
SELECT
SELECT
9. DR6
SELECT
*1
10. FL
6. ID No. SET MODE
ENTER
PUSH SELECT
SELECT
PUSH SELECT
SELECT
ID No. display
SELECT
Input ID No.
ENTER
ID No. entry
SELECT
PUSH SEL. KEY
SELECT
PUSH SEL. KEY
SELECT
Input the start tray No.
ENTER
Input the end tray No.
ENTER
Start accessing
ENTER
7. COUNT DISPLAY
SELECT
ENTER
8. IMPORT/EXPORT
SELECT
9. DRIVE DISPLAY
ENTER
DR1 :
SELECT
DR2 :
SELECT
SELECT
DR6 :
SELECT
*2
10. PRINTER MODE

*1. When the MC-CF10U Optional Carrier is installed.

*2. When the optional MC-AP30U Color Disc Printer is installed.

- If the MODE, SELECT or ENTER key has not been pressed within 10 seconds, the current display will return to "Normal display - Pattern 1" (except in a situation when an event is displayed or the Import/Export Tray numbers and SCSI-ID numbers are being input).

5. DOOR OPENING/CLOSING

Once the transport locks have been released and the power has been turned on for the first time, the door is locked by an internal safety lock in addition to the key so that the door cannot be opened with the key alone.
In order to open the door with the key under these conditions, either maintain or turn on the power supply if it has not been turned on yet, and perform the following operations before inserting and turning the key.

■Door Opening

1. In the normal display mode, press the MODE Key.
   (The menu display appears.)

```
1. NORMAL  DISPLAY
2. ERROR  DISPLAY
```

2. Press the SELECT key 4 times.
   ("5. DOOR OPEN MODE" appears.)

```
5. DOOR  OPEN  MODE
6. ID  No.SET  MODE
```

3. Press the ENTER key.
   (Select and enter "5. DOOR OPEN MODE".)

```
PUSH  SELECT  KEY
TO  OPEN  THE  DOOR
```

4. Press and hold the SELECT key for more than 5 seconds.
   (Wait until the display starts to blink.)

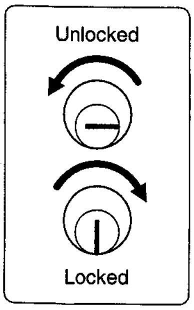
```
PUSH  SELECT  KEY
TO  OPEN  THE  DOOR
```

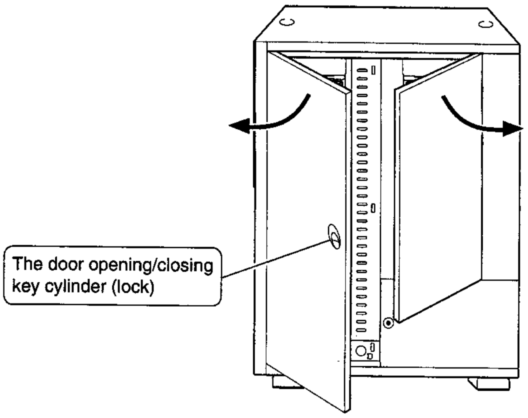
5. Release the SELECT key when the execution display [EXECUTING DOOR OPEN PROCESS] appears.
   * When inserting/ejecting a drive unit, turn off the power after the completion display [THE DOOR CAN BE OPENED] appears.

```
EXECUTING  DOOR
     OPEN  PROCESS
```

6. Insert the door opening/closing key in the cylinder and turn it counterclockwise to release the lock and open the door.

```
 THE  DOOR
    CAN  BE  OPENED
```





■Door Closing

1. Close the door and turn the door opening/closing key clockwise to lock.
2. Press the ENTER key switch when the display shown on the right appears.
   * The screen will return to the Normal display after initialization.

The door is open.

```
DOOR  OR  PANEL
    IS  OPEN
```

↓

The door is closed.

```
PUSH  ENTER  KEY
TO  RESUME
```

• You cannot perform disc transport operations when the above the door open mode is being executed or the door is open.

6. MAIL SLOT

6-1. Disc loading

CAUTION

Do not load or eject a disc before the mail slot has stopped completely.
It may not only damage the disc but also cause the equipment to malfunction because of excessive force being applied during opening and closing.

■Disc loading/ejection method

When a tray is transported to the mail slot under the control of the host computer or the import/export operation (➡ P. 20), the mail slot opens automatically when transportation has been completed.

```
EXPORT DONE
PUSH LOAD KEY
```

1. Place a disc gently on the tray with a label surface facing upwards.
   (To remove a disc from the tray, hold the disc by the center hole and the outer edge which is accessible near the notched section on the front side of the tray.)

CAUTION

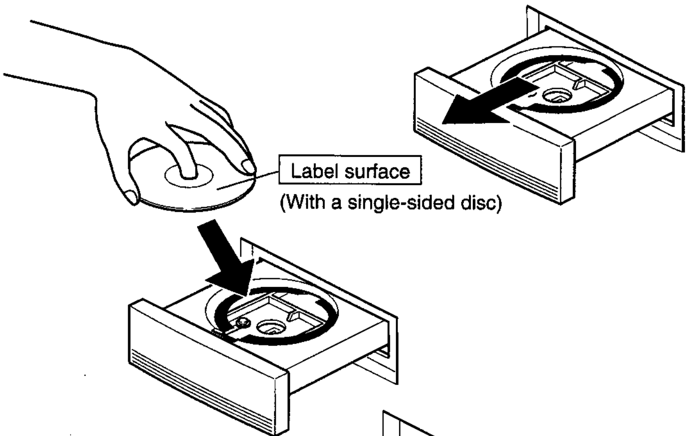
- A DVD-RAM disc may become impossible to write/read due to dust, fingerprints, scratches, etc. adhering to the disc surface. Please handle it carefully.
  Take special care in handling the DVD-RAM discs because they are extremely vulnerable to scratches and contamination.

CAUTION

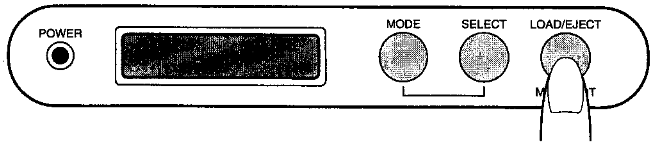
Media compatible with the MC-8200U/8600U varies depending on the installed drive types. For details, refer to the instruction manuals of the drives.

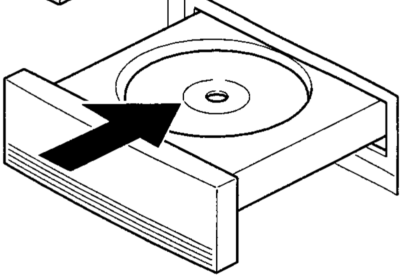
CAUTION

When using double-sided discs, handle them with special care because they do not have a label on the surface.



2. Press the LOAD/EJECT key.
   (The mail slot closes.)





- Now you can repeat the open/close operations alternately by pressing the LOAD/EJECT key provided that the mail slot transportation operation has not started yet.
- While the carrier is in operation, pressing the LOAD/EJECT key will not start the open/close operations.

CAUTION

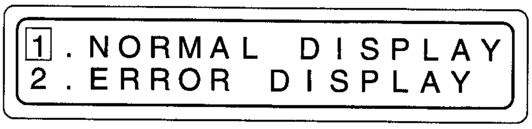
- Never use a damaged and/or warped disc or a disc with an attached label. It will lead to a malfunction of the equipment.
- If you are going to use a disc from a different drive, please check the drive specifications carefully before using it.
  (Some drives may not be able to read the disc.)
  (At the same time, the equipment may not be able to read the disc which has been written and deleted in a different drive.)
- Note that some double-sided discs do not provide a distinction between the top and bottom sides. Take special care when removing/loading these discs from/in the MC-8200U/8600U.

6-2. Import/export operation

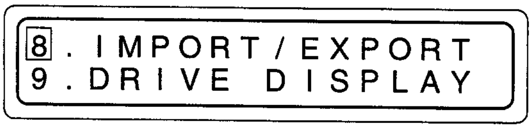
When loading/ejecting discs from any chosen tray by the mail slot without the control of the host computer, follow the procedure shown below.

- During the import/export operation, the host computer commands which include the carrier operations cannnot be executed.

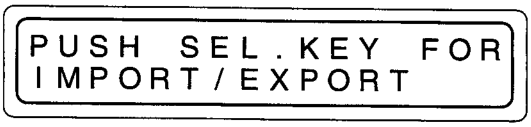
1. In the normal display mode, press the MODE key.
(The menu display appears.)


1. NORMAL DISPLAY
2. ERROR DISPLAY

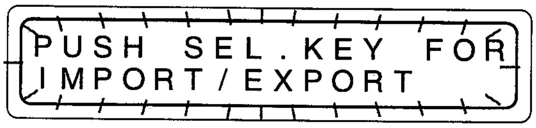
2. Press the SELECT key 7 times.
("8. IMPORT/EXPORT" appears.)


8. IMPORT/EXPORT
9. DRIVE DISPLAY

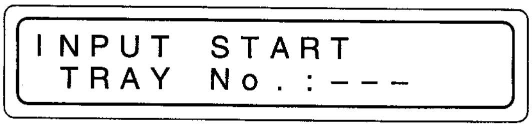
3. Press the ENTER key.
(Select "8. IMPORT/EXPORT".)


PUSH SEL.KEY FOR
IMPORT/EXPORT

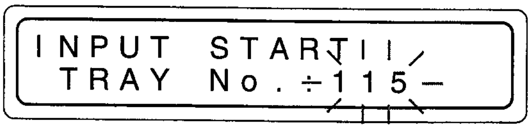
4. Press and hold the SELECT key for more than 5 seconds.
(Wait until the display starts to blink.)


PUSH SEL.KEY FOR
IMPORT/EXPORT

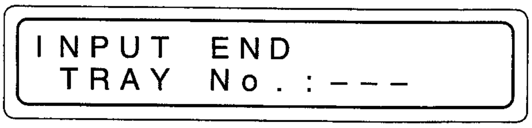
5. Release the SELECT key when the input start tray message is prompted.


INPUT START
TRAY No.:---

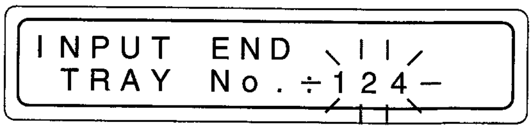
6. Enter the start tray number(001-200[*1]) using the 10-key pad.
- If the number is wrong, input a new 3-digit tray No.(ex. 001) again.


INPUT START
TRAY No.:115

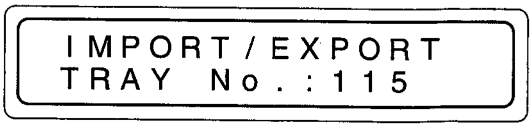
7. Press the ENTER key.


INPUT END
TRAY No.:---

8. Enter the end tray number(001-200[*1]) using the 10-key pad.
- If you wish to use the import/export operation for a single disc, either enter the same end tray number as the start tray number or press the ENTER key without entering any number.


INPUT END
TRAY No.:124

9. Press the ENTER key.
- You can cancel the following operations by pressing and holding the ENTER key for 5 seconds during the import/export operation. If the mail slot opens after cancelling the operation, press the LOAD/EJECT key.(The tray in operation will be returned to the magazine; then the import/export operation will be completed.)


IMPORT/EXPORT
TRAY No.:115

[*1] MC-8200U. (001 - 600 for the MC-8600U)

10. When the mail slot automatically opens, place the desired disc on the tray (number is displayed on the LCD).
(➡ See "6-1. Disc loading" on page 19.)
- To remove a disc, lift it out of the tray.
- When the following message appears on the LCD display, it is possible that the transport lock of the mail slot has not been properly released. Please make sure that that lock pin has been removed completely. (➡ See "3-2. Opening the transport lock" on page 11.)

```
CHECK THE LOCK
PIN!
```

Press the MODE key to return to the menu display.

11. Press the LOAD/EJECT key. (The mail slot closes and the tray is returned to the magazine.)

12. When continuous import/export operations are required, repeat steps ***10*** and ***11***.
(The tray number on the LCD display will increment by one.)
- If the tray cannot be found in the magazine (including instances when the tray is in a drive or the color disc printer), this tray No. will automatically show up on the LCD display and then the import/export operation will be completed.

```
   NO TRAY
TRAY No.:115
```

Press the MODE key to return to the menu display.

In the following instances, the import/export operation cannot be performed and the LCD display will indicate as shown on the right.
Clear the following conditions on the host computer side first and then input again.
- When a tray is in the mail slot.
- When the carrier operation is being executed.
- When the host computer control is prohibiting import/export operations.

```
IMPORT/EXPORT
 IS PROHIBITED
```

- If the disc location in the main unit (the changer) has been altered or the contents of a disc have changed bacause of import/export operations, the disc location data on the host computer should, as a rule, be renewed. (Hardware and software must stay in sync for proper operation).

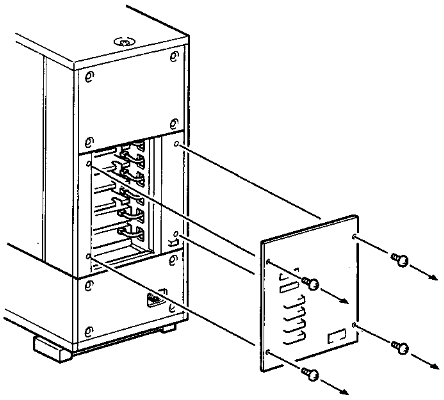
7. DRIVE UNITS

CAUTION

- Make sure that the power is turned off when installing/removing, connecting or setting a drives.
  Performing these operations while the power is on will result in the equipment malfunctioning.
  Be sure to read the instruction manuals of the drive units before proceeding to any of the following work.
- Note that certain device drivers are incompatible with the simultaneous use of more than one type of drive (mixed use).
  Please consult your dealer or nearest JVC service center.

7-1. Removing the panel

1. Open the door.
   (➡ See "5. Door Opening/Closing" on page 18.)



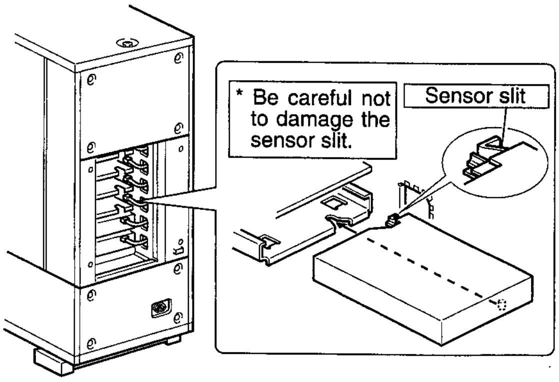
2. Turn off the power.

3. Remove the drive bay panel.
   - Remove the 4 screws.
   - Carefully disconnect the SCSI cable from the drive.
   (➡ See "7-4 Connecting the cables" on page 23.)

7-2. Installing the drive units

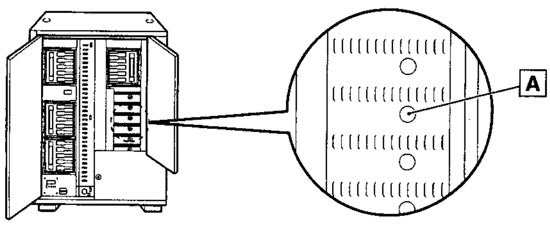
- When removing the drive units, be sure to disconnect the control cable and power cable beforehand.
  (➡ See "7-4. Connecting the cables" on page 23.)

1. Inserting a drive unit.
   - Always insert it into a bay with the lowest available bay No.(from bottom to top)
   - Be careful not to snag any cables.
   - Be careful not to damage the sensor slit.



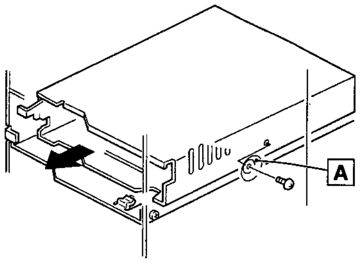
* Be careful not to damage the sensor slit.

2. Secure the drive using the provided metric screws.
   - The provided metric screws are attached to the optional drive unit.



CAUTION

Be sure to attach the screws securely. If the library system is operated without the screws, either the library or the drives may be damaged.



7-3. Setting the SCSI-ID Numbers, etc.

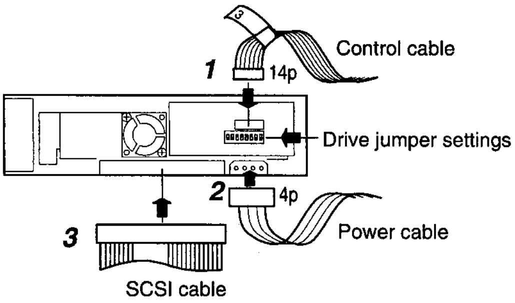
- Procedure for setting the SCSI-ID No. and other jumper settings.
  Please refer to the specified section(s) of the corresponding drive instruction manual.
- Make sure to turn the power OFF before starting the procedure. If the procedure is carried out with the power ON, it will cause malfunction.
- The new ID Nos. will become effective from the the moment the power is turned on.

- The new SCSI ID Nos. should not conflict with the ID Nos. of other SCSI equipment on the same SCSI bus.

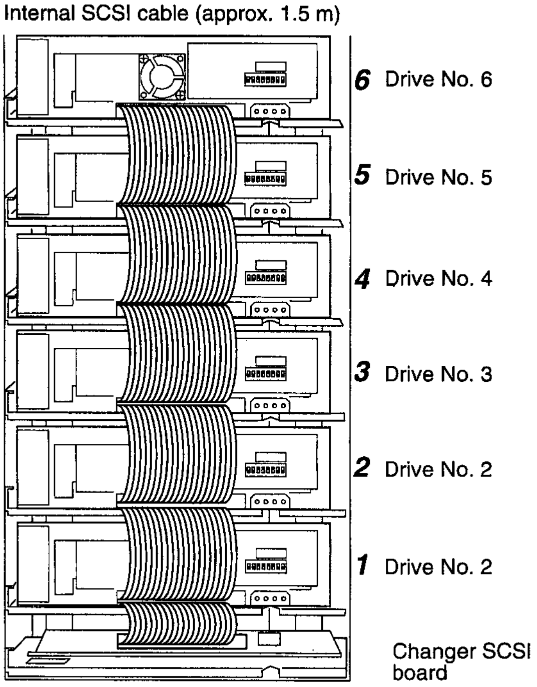
7-4. Connecting the cables

- **Please refer to a relevant section of an optional drive unit's instruction manual for the correct connector positions of the cables.**

1. Connect the control cable (14P).
   - Connect the cable with the corresponding number to the drive bay No. If the cable with the wrong number is connected, it will result in equipment malfunctions.
2. Connect the power cable (4P).
   (The figure shows the case with the MC-R200U.)


1
14p
Control cable
Drive jumper settings
2
4p
Power cable
3
SCSI cable

3. Connect the SCSI cable


Internal SCSI cable (approx. 1.5 m)
6 Drive No. 6
5 Drive No. 5
4 Drive No. 4
3 Drive No. 3
2 Drive No. 2
1 Drive No. 2
Changer SCSI board

7-5. Installing the panels

CAUTION

- Check the installation screws and cables before installing the panel. Insufficient connections may cause malfunctions.

1. Attach rear and side panels.
   - Screw the panels on, following the procedure in "7-1 Removing the panel" on page 22 in the reverse order.
2. Close the door
   (➡ See "5. Door Opening/Closing" on page 18.)

7-6. Automatic drive detection mode

Note:
After installing, adding, exchanging or removing drives, be sure to execute the auto drive detection mode to prevent any malfunction.

1. While holding the "8" key on the control panel, turn on the MC-8200U/8600U.
2. When the LCD display shows "DRIVE DETECTION COMPLETED", turn off the power of the MC-8200U/8600U.
3. Turn the MC-8200U/8600U on again.

```
DETECTING DRIVES
.....PLEASE WAIT
```

```
DRIVE DETECTION
       COMPLEED
```

7-7. Drive type display

The types of the installed drives can be confirmed by the display.

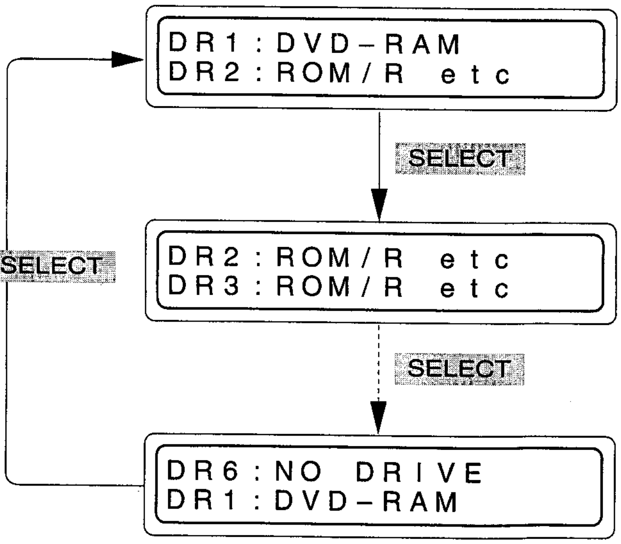
1. Press the MODE key while the LCD display is in normal display mode (to display Menu display).

```
1.NORMAL DISPLAY
2.ERROR DISPLAY
```

2. Press the SELECT key 8 times (to display "9. DRIVE DISPLAY").

```
9.DRIVE DISPLAY
1.NORMAL DISPLAY
```

3. Press the ENTER key (to select "9. DRIVE DISPLAY").
4. The type of the drive in each drive bay will be displayed. (Each press of the SELECT key displays the information on the next drive.)



```
DR1:DVD-RAM
DR2:ROM/R etc
```

```
DR2:ROM/R etc
DR3:ROM/R etc
```

```
DR6:NO DRIVE
DR1:DVD-RAM
```

Meaning of the display

"DVD-RAM" : DVD-RAM drive
"NO DRIVE" : Drive is not connected or installed
"ROM/R etc" : Non DVD-RAM drive (CD-ROM/R, DVD-ROM, etc.)
"UNKNOWN" : When drive detection mode has not been executed.

- If the automatic drive detection mode has not been executed, the LCD displays "UNKNOWN DRIVE DETECTED".

```
UNKNOWN DRIVE
TYPE DETECTED
```

8. SETTING THE SCSI-ID NUMBERS OF THE MAIN UNIT

Perform the following operations when changing the setting of the SCSI-ID Nos. of the main unit (changer).

1. In the normal display mode, press the MODE switch. (the menu display returns.)

```
1.NORMAL DISPLAY
2.ERROR DISPLAY
```

2. Press the SELECT key 5 times. ("6. ID No. SET MODE" appears.)

```
6.ID No.SET MODE
7.COUNT DISPLAY
```

3. Press the ENTER key. (Select and enter "6. ID No. SET MODE".)

```
PUSH SELECT KEY
TO CHANGE ID No.
```

4. Press and hold the SELECT key for more than 5 seconds. (Wait until the display starts to blink.)

```
PUSH SELECT KEY
TO CHANGE ID No.
```

5. Release the SELECT key when the current ID No. is displayed.

```
CHANGER
  SCSI ID No.=0
```

6. Select a new ID No. using the keys 0 to 7.

```
CHANGER
  SCSI ID No.=3
```

7. Press the ENTER key. (The ID No. being displayed is entered.)
   - The set ID No. becomes effective from the next time power is turned on.

```
CHANGER ID No.
 IS SET TO-3-
```

- The new SCSI ID Nos. should not conflict with the ID Nos. of other SCSI equipment on the same SCSI bus.

8-1. Display for checking the SCSI ID numbers

Perform the following operations when display of the current SCSI-ID Nos. of the main unit and the drive units is required.

1. In the normal display mode, press the MODE key. (the menu display appears.)

```
1.NORMAL DISPLAY
2.ERROR DISPLAY
```

2. Press the SELECT key twice. ("3. ID No. DISPLAY" appears.)

```
3.ID No.DISPLAY
4.PANEL OPEN
```

3. Press the MODE key. (Select and enter "3. ID No. DISPLAY".) The following will be displayed.
   CH: Changer
   DR1 - 6: Drive 1-6 ("-" indicates "Not Connected")

```
CH DR1 2 3 4 5 6
 0    1 2 - - - -
```

9. MAGAZINES

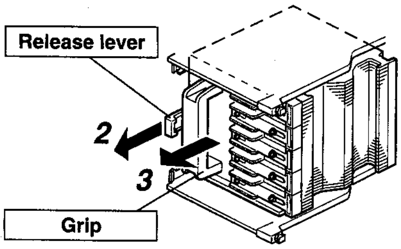
CAUTION

- Do not use a magazine which has been damaged (e.g. dropped), as normal operation cannot be accomplished with such a magazine. In addition, the use of such a magazine may damage the internal mechanism.
- The magazines and trays used with the MC-1000/2000 series CD-ROM Library and MC-7000 series DVD-RAM Library are not compatible with those used with the MC-8000 series CD/DVD Library. Do not interchange the magazines and trays between these models, as this will damage the equipment.
- If it is required to take out or attach a magazine during operation, be sure to perform optimum software processing at the host in advance.

9-1. Ejecting/loading the magazines

■Ejection

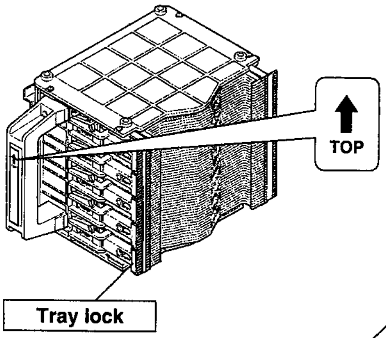
1. Open the door. (➡ See "5. Door Opening/Closing" on page 18.)
   * Do not turn off the power switch.
2. Pull the release lever toward the front.
   - The magazine unlocks and comes out slightly toward the front. Be careful not to get your finger caught between the release lever and grip.
3. Pull the magazine straight toward the front.
   - Use care not to hit or drop the magazine.
   - Be careful not to touch the tray lock by mistake. A tray may spring out.

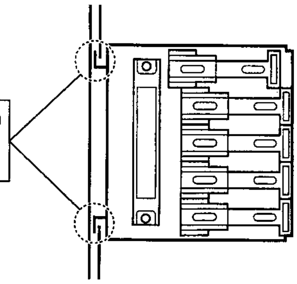


■Loading

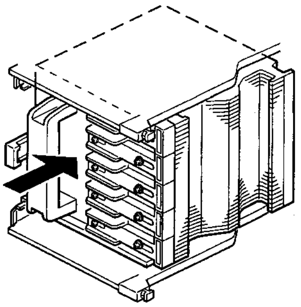
1. Check the orientation of the magazine.
   - The [⬆ TOP] marking is provided on the grip to indicate the upper direction of the magazine.
2. Align the magazine rails with the guide on the main unit (changer) and insert it straight forward.
   - Insert the magazine slowly. Inserting it with a strong force may damage the equipment.
   - Ensure that the magazine guides are fitted in the guides located at the left or right sides of the library (both at the top and bottom of the sides).
3. Push in the magazine completely until it stops.
   - Then, pull the magazine slightly toward the front to ensure that it is locked.
4. Close the door (See "5. Door Opening/Closing" on page 18.)

* If a magazine was removed and installed and then the door closed after the power has been turned on, this function will automatically check the disc status inside the magazine.(provided that the automatic disc checking function has been turned ON ➡P.28).





The magazine guides are fitted in the guides located at the left and right sides of the library.



Display in case of incomplete insertion

The front panel display will indicate an error if the door is closed while the magazine insertion is incomplete. Check the incorrectly inserted magazines from the displayed message and re-insert them completely until they are locked.

```
ERROR OCCURRED!
```

```
DISC=---
CODE=CC-31
```

```
ERR MG - 2 - - -
- - - - - 11 -
```

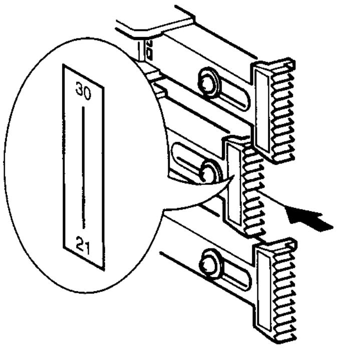
(Display when the insertion of magazine Nos. 2 and 11 are unsuccessful.)

9-2. Loading/replacing the discs

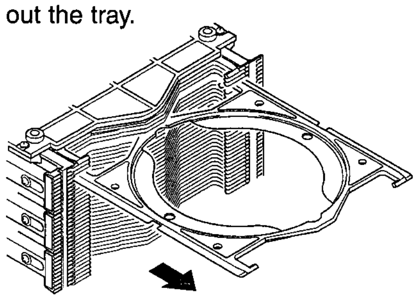
CAUTION

- When loading discs directly into the magazine trays without using the mail slot, be careful not to damage the magazines and trays.
- A disc may become impossible to write/read due to dust, fingerprints, scratches, etc. adhering to the disc surface. Please handle it carefully.
- Take special care in handling the DVD-RAM discs because they are extremely vulnerable to scratches and contamination.

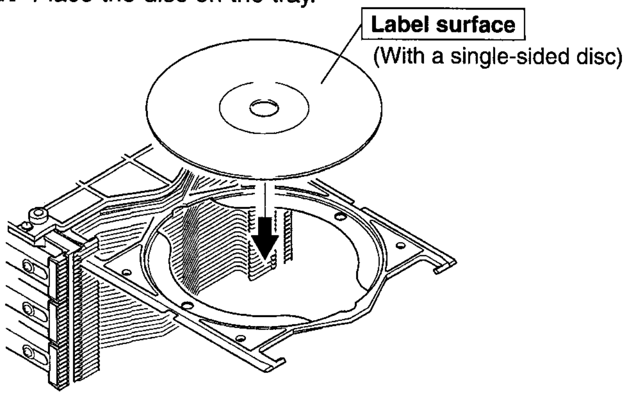
1. Eject a magazine. (➡ See "9-1. Ejecting/loading the magazines" on page 26.)
2. Unlock the tray lock corresponding to the tray to be used. (➡ See "2-3. Magazine numbers, tray numbers, disc numbers" on page 8.)



3. Pull out the tray.



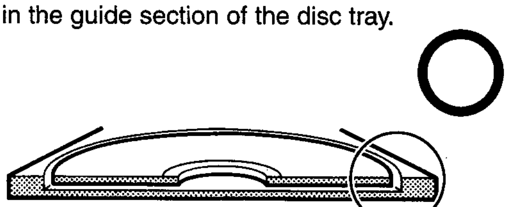
4. Place the disc on the tray.

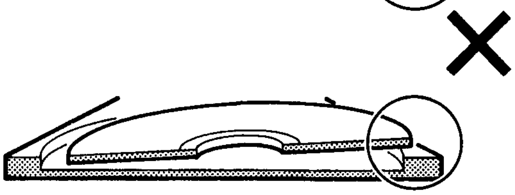


5. Push in the tray and lock the tray lock.
6. Load the magazine in the changer. (➡ See "9-1. Ejecting/loading the magazines" on page 26.)

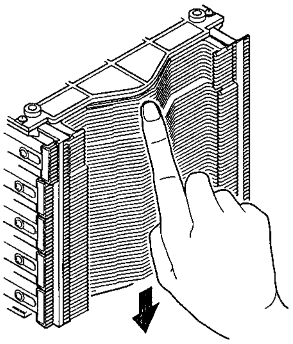
CAUTION

(1) Place the disc correctly on the disc tray so that it does stay in the guide section of the disc tray.

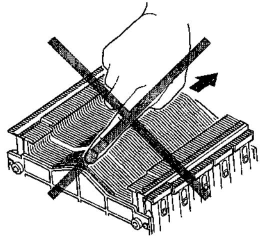




(2) To prevent projection of a tray or incomplete locking of the tray lock, align the edges of all the trays in the magazine by slightly pushing them inward from the top to the bottom with you finger.



(3) Always handle the magazine the correct way. Holding or placing a magazine upside down or on its side may cause the discs to slip out of position and result in malfunction.



Magazines

CAUTION

Media compatible with the MC-8200U/8600U varies depending on the drive configuration. For details, refer to the instruction manuals of the drives.

When using double-sided discs, handle them with special care because they do not have a label on the surface.

CAUTION

- Never use a damaged and/or warped disc or a disc with an attached label. It will lead to a malfunction of the equipment.
- If you are going to use a disc which has been used with this equipment from a different drive, please check the drive specifications carefully before using it.
  (Some drives may not be able to read the disc.)
  (At the same time, the equipment may not be able to read the disc which has been written and deleted in a different drive.)
- Note that some double-sided discs do not provide a distinction between the top and bottom sides. Take special care when removing/loading these discs from/in the MC-8200U/8600U.

9-3. Automatic disc checking function

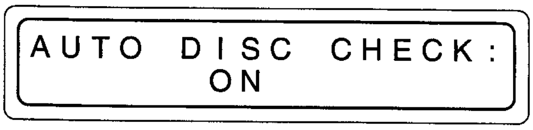
If a magazine was removed and reinstalled after the power had been turned on, this function will automatically check the disc status inside the magazine.

■Checking the operation modes.

Press and hold the MODE switch for more than 5 seconds.

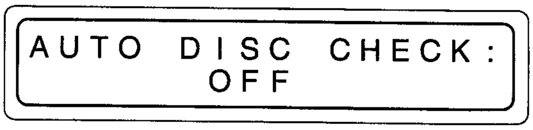
- The factory default setting for the automatic disc checking function is on.

Automatic disc checking function ON



```
AUTO DISC CHECK:
ON
```

Automatic disc checking function OFF



```
AUTO DISC CHECK:
OFF
```

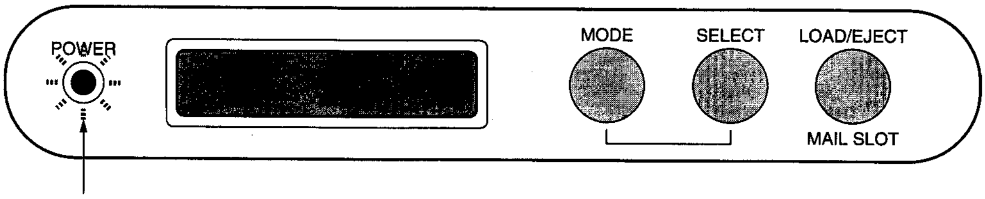
■Switching the operation modes

Operation modes will alternate (toggle) when you turn the power off, and then on while pressing both the SELECT and the LOAD/EJECT keys simultaneously.

- Depending on the management software used, you may still have to update the disc status data of the host computer even after the automatic disc checking function has updated the disc status data of a magazine.

10. ERROR CODES

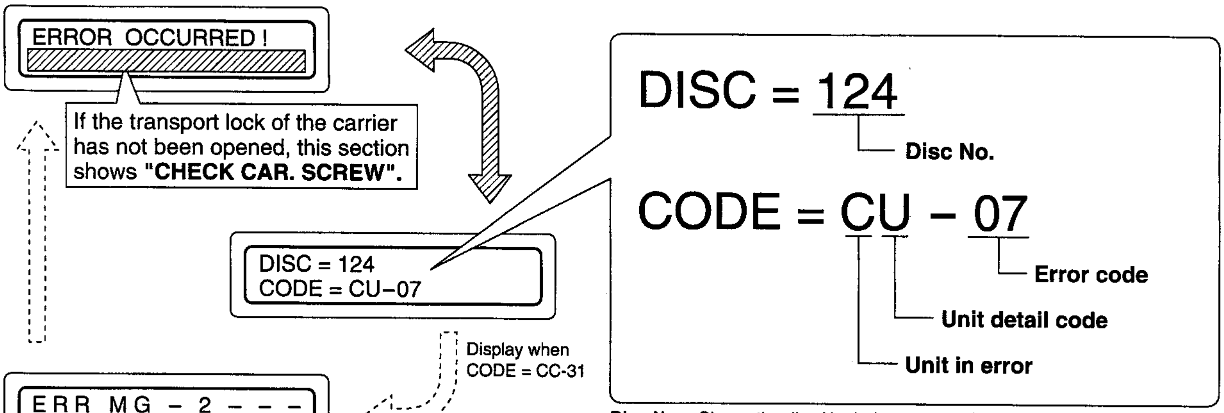
In the event an error, the control panel indicator blinks and the LCD shows the error details by overriding any other information.


POWER
MODE
SELECT
LOAD/EJECT
MAIL SLOT

The indicator blinks.

10-1. Error code explanation

LCD displays in the event of error


ERROR OCCURRED !
If the transport lock of the carrier has not been opened, this section shows "CHECK CAR. SCREW".
DISC = 124
CODE = CU–07
Display when CODE = CC-31
ERR MG – 2 – – –
– – – – – 11 –
DISC = 124
Disc No.
CODE = CU – 07
Error code
Unit detail code
Unit in error

Disc No. : Shows the disc No. being accessed at the moment of error occurrence. "---" is displayed if no disc is accessed at the moment of error occurrence.

Units in error and unit detail codes

Unit in error		Unit detail code	
C	Carrier	U	Up/down
		L	Tray lock
		C	Catcher
		D	Disc
		F	Flip
M	Mail slot	E	Ejection
		L	Loading
		T	Tray
D1 to D4	Drive	T	Tray
		C	Clamp
		E	Ejection
		D	Disc
		S	Spindle
P	Color Disc Printer	T	Tray

- When an error occurs, write down the error code before turning the power off, except in the case of an urgent problem such as smoke.

10-2. Error code list

Device	Device part	Error code	Description
C	U	01	UP/DOWN rotary sensor does not change
		02	Left slit sensor does not change
		03	Right slit sensor does not change
		04	UP/DOWN motor does not function
		07	UP/DOWN motor drive short-circuits and over-current is detected
		08	UP/DOWN operation exceeds the predetermined duration
		09	Lower limit sensor turn on during UP/DOWN operation
C	L	10	Tray lock release not possible
		11	Tray lock impossible, or lane change not possible
		12	Tray lock does not exist at the initial position during carrier movement
C	C	20	Catcher (right → left) movement operation exceeds the predetermined duration
		21	Catcher (left → right) movement operation exceeds the predetermined duration
		22	Catcher (right → left) convergence operation exceeds the predetermined duration
		23	Catcher (left → right) convergence operation exceeds the predetermined duration
		24	Catcher (right → left) tray rotary sensor does not change
		25	Catcher (left → right) tray rotary sensor does not change
		26	Right catcher sensor does not turn on
		27	Left catcher sensor does not turn on
		28	Catcher motor (right → left) does not function
		29	Catcher motor (left → right) does not function
		30	Tray does not exist
		31*2	Magazine insertion incomplete, or sensor defective
		32	Over-current is detected during catcher motor operation
C	D	41	Destination-unknown tray exists on the carrier
		42	No disc in the tray
		43	Flip tray does not exist
	F	80	During the flip raise operation, the expected time required is over
		81	During the flip descent operation, the expected time required is over
M	E	50	Mail Slot ejecting is not possible
	L	51	Mail Slot loading is not possible
	T	52	Destination-unknown tray exists in the Mail Slot
(D#)*1	T	60	Destination-unknown tray exists in the Drive and the control cable of the Drive is disconnected.
		61	Tray removal is not possible at the drive position
	C	62	Disc clamp of the drive does not function
	E	63	Drive ejection is not possible
	D	64	Failure to remove the disc from the drive
	S	65	Spindle motor fails to stop
P	T	72	Destination-unknown tray exists in the Label Printer

*1: # represents the drive number.

*2: Check the magazine loading condition. (➡ See "9-1. Ejecting/loading the magazines" on page 26.)

10-3. How to cancel the Error "64"

Please have your dealer or local JVC-authorized service agent perform this work.

Error "64" occurs when the removal of a disc from a drive fails or when the position of a disc on the tray is unstable.

During the occurrence of Error "64", even if the power is turned ON again, the unit will not startup. Perform the following operation:

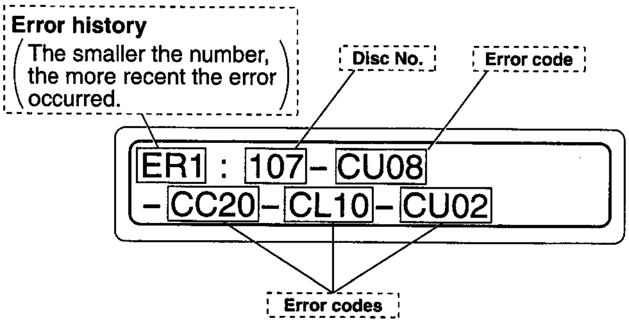
1. Open the door and remove the side and center panels.
2. Remove both the disc and the tray from the drive and that is on the carrier. Contact JVC for assistance.
3. Close the door, then while pressing the '0' key, turn the power ON.

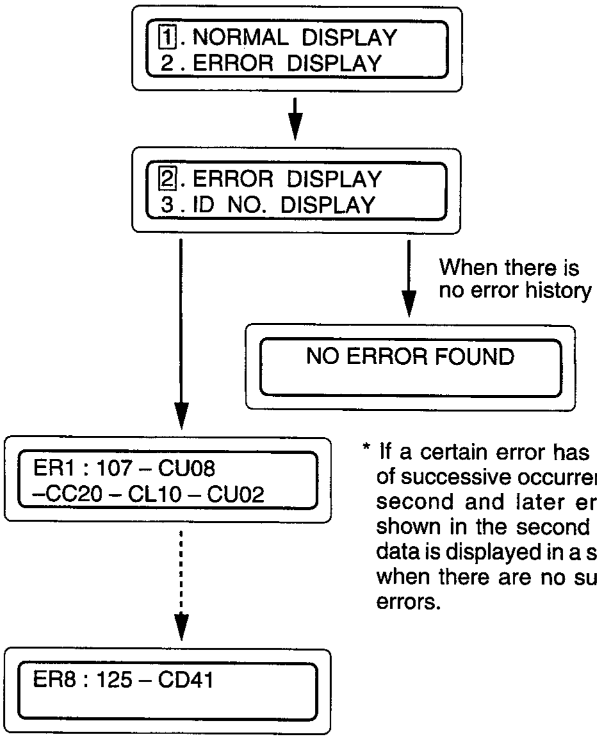
* If the cancellation of the Error "64" is performed without removing the disc and tray from the carrier, damage to either or both of them may result.

10-4. Error history display

The history of past errors can be displayed as described below.

1. In the normal display mode, press the MODE key.
   (The menu display appears.)
2. Press the SELECT key once.
   ("2. ERROR DISPLAY" appears.)
3. Press the ENTER key.
   (Select "2. ERROR DISPLAY".)
   "NO ERROR FOUND" appears if no error has occurred in the past.
   If there is any past error, the data on the latest 8 error occurrences can be recalled from memory and displayed.
4. Press the SELECT key to display the data on past errors in sequence.


Error history
(The smaller the number, the more recent the error occurred.)
Disc No.
Error code
ER1 : 107 - CU08
- CC20 - CL10 - CU02
Error codes


1. NORMAL DISPLAY
2. ERROR DISPLAY
2. ERROR DISPLAY
3. ID NO. DISPLAY
When there is no error history
NO ERROR FOUND
ER1 : 107 – CU08
–CC20 – CL10 – CU02
ER8 : 125 – CD41

* If a certain error has a history of successive occurrences, the second and later errors are shown in the second line. The data is displayed in a single line when there are no successive errors.

- This data may be lost if the equipment is disconnected from the power source for more than six months.

10-5. Troubleshooting

When the following conditions occur, check items listed on the right.

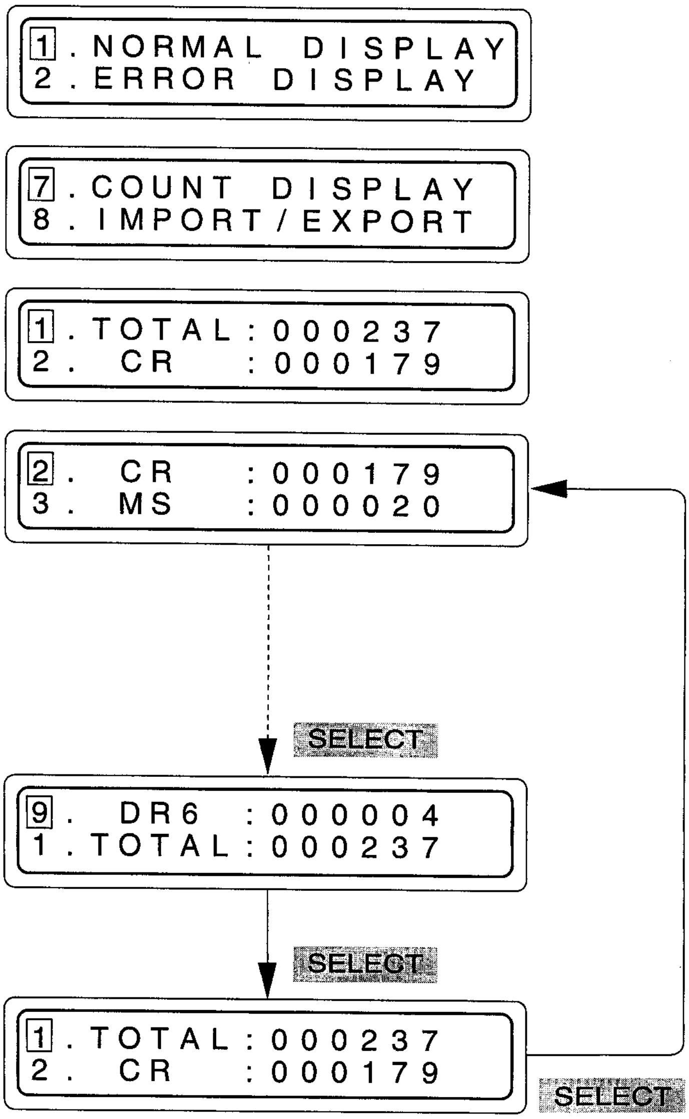
Conditions	Causes
The changer or drives cannot be recognized by the host computer.	The drive unit SCSI ID No. is conflicting. (➡ P. 9)
	The end of the SCSI line is not terminated. (➡ P. 9)
	The SCSI cable is either too long or not sealed sufficiently.(➡ P. 14)
	The host computer SCSI board is not set to SCSI-2.(➡ P. 14)
	The drive unit SCSI connector is improperly connected. (➡ P. 23)
	The drive unit power cable is improperly connected. (➡ P. 23)
	Overlapping of the SCSI-ID Nos. has occurred. (➡ P. 15, 23)
The drive is identified but a disc cannot be transported to the drive.	The drive unit control cable is improperly connected. (➡ P.15, 23)
Read (write) errors occur.	The disc is either dirty or damaged. (➡ P. 5)
	The drive unit SCSI ID No. is conflicting. (➡ P. 9)
	The end of the SCSI line is not terminated. (➡ P. 9)
	The SCSI cable is either too long or not sealed sufficiently.(➡ P. 14)
	The host computer SCSI board is not set to SCSI-2.(➡ P. 14)
	The drive unit control cable is improperly connected. (➡ P. 23)
The initial setup of the SCSI device is not possible using a driver software.	SCSI ID Nos. are conflicting. (➡ P. 14, 23)
The LCD display shows "UNKNOWN DRIVE TYPE DETECTED".	The drive detection mode has not been executed. (➡ P. 24)

11. ACCESS COUNTS

Access counts of the main unit (changer) and each unit (carrier, drives 1 - 6 and color disc printer) can be checked using this function.

1. In the normal display mode, press the MODE switch.
   (The menu display appears.)
2. Press the SELECT key 6 times.
   ("7. COUNT DISPLAY" appears.)
3. Press the ENTER key.
   (Select "7. COUNT DISPLAY".)
4. Pressing the SELECT key changes the display.

1. TOTAL	: The total access count for the Library.
2. CR	: Carrier
3. MS	: Mail slot
4. DR1	: Drive 1
5. DR2	: Drive 2
6. DR3	: Drive 3
7. DR4	: Drive 4
8. DR5	: Drive 5
9. DR6	: Drive 6
(**10.** FL	: Flip Only when the MC-CF10U Optional Carrier is installed)
(**11.** PR	: Printer Only when the MC-AP30U Color Disc Printer is installed. However, if an optional carrier is installed "10. PR" will be displayed.)



1 . NORMAL DISPLAY
2 . ERROR DISPLAY
7 . COUNT DISPLAY
8 . IMPORT / EXPORT
1 . TOTAL : 000237
2 . CR : 000179
2 . CR : 000179
3 . MS : 000020
SELECT
9 . DR6 : 000004
1 . TOTAL : 000237
SELECT
1 . TOTAL : 000237
2 . CR : 000179
SELECT

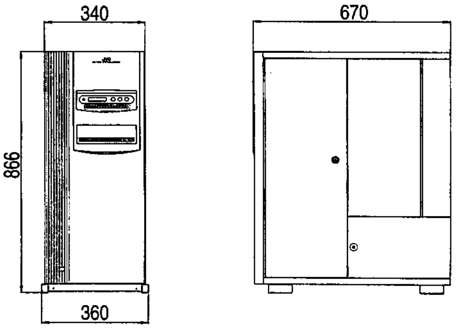
- Access counts of unconnected drive units will appear as[------].
- The initial "TOTAL" access count from the factory may be "999880-999999".
- This data may be lost if the equipment is disconnected from the power source for more than six months.

SPECIFICATIONS

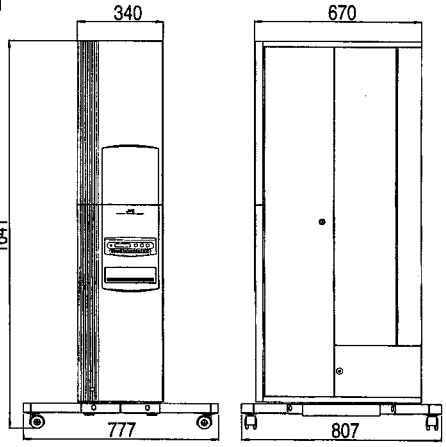
Item		MC-8200U			MC-8600U
Number of stored discs		200			600
Number of magazines		4			12
Operating environment		Temperature: 5°C-35°C (41°F-95°F) Humidity: 10%-80% (no condensation)			
Rated power voltage		AC 120 V-240 V			
Rated power frequency		50 Hz/60 Hz			
Rated current		2.4 A - 1.4 A (max. value), 1.4 A - 0.8 A (6 Drives are loaded)			3.2 A - 1.8 A (max. value), 1.4 A - 0.8 A (6 Drives are loaded)
Power consumption		140 W (Reference value, 6 DVD-RAM drives are loaded)			
Interface		SCSI-2 (Amphenol 50-pin full size)			
Drive slots rack bays		6			
Media size		12 cm discs			
Applicable options	**Drives**	Available drives	Compatible discs		
		DVD-RAM drive	MC-R400U	Rec/Play	DVD-RAM with 4.7 GBytes/sideand 2.6 GBytes/side
				Play	DVD-ROM, CD-ROM/R, etc.
			MC-R200U	Rec/Play	DVD-RAM with 2.6 GBytes/side
				Play	DVD-ROM, CD-ROM/R, etc.
		DVD-ROM drive	MC-D104U	Play	DVD-ROM, CD-ROM/R, etc.
		CD-ROM drive	MC-D32U MC-D18U	Play	CD-ROM/R, etc.
		CD-R drive	MC-R18U	Rec/Play	CD-R, CD-RW (Records with MC-R18U only)
			MC-R14U MC-R12U	Play	CD-ROM/R, etc.
		For the specifications of the drives, refer to their relevant instruction manuals. For other drives, consult your dealer or nearest JVC service center.			
	Carrier	Double-sided disc compatible carrier: MC-CF10U			
	Magazine	Magazine set: MC-M25U (B)			
	Printer	Compatible with color disc printer (MC-AP30U)			
Weight		58kg (Excluding the discs and optional equipment)			104kg (Excluding the discs and optional equipment)

Dimensions
(Unit: mm)

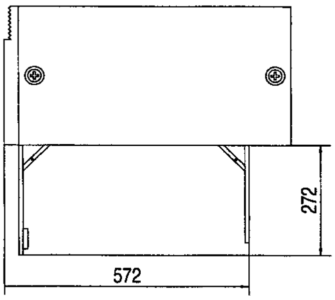
MC-8200U



MC-8600U



View when the door is open (Top view)



Design and specifications are subject to change without notice.

SECTION 1
CIRCUIT BOARD COMPATIBILITY

Model Unit Name	MC-8100	MC-8200/8600	MC-7100	MC-7200/7600	MC-2100	MC-2200/2200P MC-2600/2600P	MC-1200/1600	Remarks
SCSI PCB ASS'Y	MC81-SCSI	MC82-SCSI	MC71-SCSI	MC72-SCSI	MC21-SCSI	MC22-SCSI	MC12-SCSI	
CHASSIS PCB ASS'Y	MC81-CHAS	MC82-CHAS	MC71-CHAS	MC72-CHAS	MC21-CHAS	MC22-CHAS	MC12-CHAS	
CARRIER MECHA ASS'Y	MC21-CARR	MC22-CARR	MC21-CARR	MC22-CARR	MC21-CARR	MC22-CARR	MC12-CARR	
MAIL SLOT ASS'Y	MC12-MAIL							
U/D MOTOR ASS'Y	MC21-UD-M	MC12-UD-M	MC21-UD-M	MC12-UD-M	MC21-UD-M	MC12-UD-M	MC12-UD-M	
MAGAZINE SET	MC-M25(B)		MC-M25		MC-M15			
POWER UNIT ASS'Y	QAL0141-001	QAL0112-001	QAL0141-001	QAL0112-001	QAL0141-001	QAL0112-001	MC12-POWR	
CD-ROM DRIVE	MC-D32/MC-D18		–	–	MC-D32/MC-D18			
CD-R DRIVE	MC-R18/MC-R14/MC-R12		–	–	MC-R18/MC-R14/MC-R12			
DVD-ROM DRIVE	MC-D104		–	–	MC-D104			
DVD-RAM DRIVE	MC-R400/MC-R200		MC-R200		–	–	–	

*1: The CARRIER MECHA ASS'Y has upward compatibility. (The MC21-CARR can be used with all models.)

SCSI PCB Compatibility Table ○: Usable. △: Usable by replacing ROM. ×: Unusable.

	MC-8100	MC-8200/8200	MC-7100	MC-7200/7600	MC-2100	MC-2200/2600	MC-1200/1600
MC81-SCSI	○	×	△	×	△	×	×
MC82-SCSI	×	○	×	△	×	△	×
MC71-SCSI	△	×	○	×	△	×	×
MC72-SCSI	×	△	×	○	×	△	×
MC21-SCSI	△	×	△	×	○	×	×
MC22-SCSI	×	△	×	△	×	○	×
MC12-SCSI	×	×	×	×	×	×	○

CHASSIS PCB Compatibility Table ○: Usable. △: Usable by replacing ROM. ×: Unusable.

	MC-8100	MC-8200/8200	MC-7100	MC-7200/7600	MC-2100	MC-2200/2600	MC-1200/1600
MC81-CHAS	○	×	△	×	△	×	×
MC82-CHAS	×	○	×	×	×	×	×
MC71-CHAS	△	×	○	×	△	×	×
MC72-CHAS	×	×	×	○	×	△	△
MC21-CHAS	△	×	△	×	○	×	×
MC22-CHAS	×	×	×	△	×	○	△
MC12-CHAS	×	×	×	△	×	△	○

CARRIER MECHA ASS'Y Compatibility Table ○: Usable. ×: Unusable.

	MC-8100	MC-8200/8200	MC-7100	MC-7200/7600	MC-2100	MC-2200/2600	MC-1200/1600
MC21-MCRR	○	○	○	○	○	○	○
MC22-MCRR	×	○	×	○	×	○	○
MC12-MCRR	×	×	×	×	×	×	○
MC-CF10	○	○	×	×	×	×	×

SECTION 2
PRODUCT SPECIFIC SERVICE ITEMS

2.1 Removal of Major Parts

2.1.1 Replacement of Fuses and Batteries

1. Fuses

Note:
Perform fuse replacements correctly.
Never use a fuse other than that specified by the manufacturer (same model number or its equivalent).

There are four fuses on the chassis PCB and one fuse on the SCSI PCB. When replacing a fuse, be sure to use one having the specified parts number. For the parts number, refer to "5. PCB Ass'y Parts List".
Chassis PCB : F120, F900, F400, F500
SCSI PCB : F2

2. Batteries

Note:
If the battery is not replaced correctly, it could cause an explosion.
Never use a battery other than one specified by the manufacturer (same model number or its equivalent). After replacement, dispose of the expired battery according to the instructions of the manufacturer.

There are two batteries; one on the chassis PCB and the other on the SCSI PCB. When replacing a battery, be sure to use one having the specified parts number. For the parts number, refer to "5. PCB Ass'y Parts List".
Chassis PCB : BT300
SCSI PCB : BT1

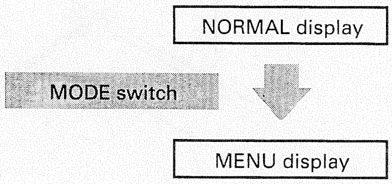
2.1.2 Opening/Closing the Door and Panel Removal

Opening the Door

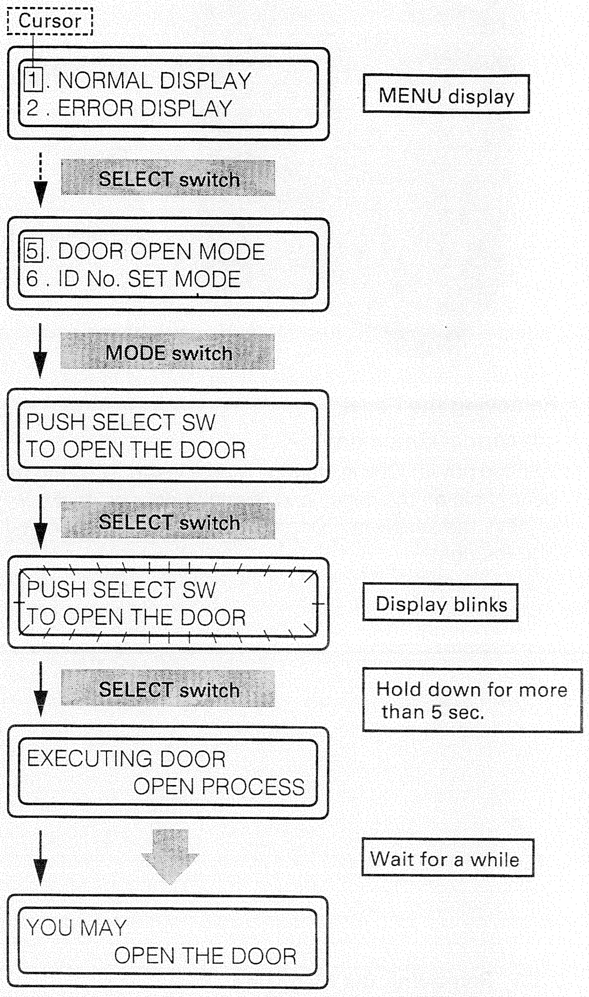
<In normal condition>

When the power of the main unit is OFF, first turn it to ON.

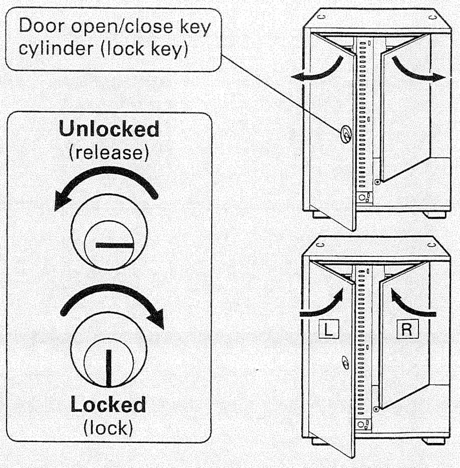
1. Press the MODE switch on the control panel to display the MENU display.


NORMAL display
MODE switch
MENU display

2. Use the SELECT switch to move the cursor to "5. DOOR OPEN MODE" and select with the MODE switch.
3. When the SELECT switch is pressed, the LCD display starts blinking. Hold down the switch for more than 5 seconds, the unit enters the door open mode.
4. When the door open mode operation completes, the message "YOU MAY OPEN THE DOOR" is displayed accompanied by a click sound.
   In this condition, when the MODE switch is pressed without opening the door, the "NORMAL display" (normal operation status) resumes.


Cursor
1. NORMAL DISPLAY
2 . ERROR DISPLAY
MENU display
SELECT switch
5. DOOR OPEN MODE
6 . ID No. SET MODE
MODE switch
PUSH SELECT SW
TO OPEN THE DOOR
SELECT switch
PUSH SELECT SW
TO OPEN THE DOOR
Display blinks
SELECT switch
Hold down for more than 5 sec.
EXECUTING DOOR
OPEN PROCESS
Wait for a while
YOU MAY
OPEN THE DOOR

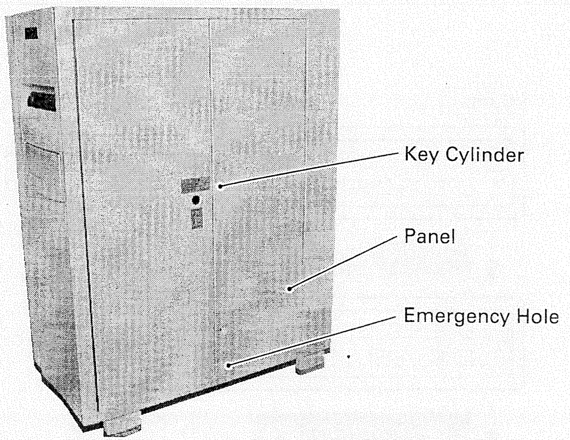
5. Turn the power of the main unit to OFF.
6. Insert the key and turn it counterclockwise (by 90°) to release the lock. Now the doors are opened toward you.
7. When closing the door, first close the [L] door then close the [R] door.
   While holding the door gently, turn the key clockwise (by 90°) to lock it, then pull out the key.


Door open/close key cylinder (lock key)
Unlocked
(release)
Locked
(lock)
L
R

<When trouble occurs>

When the power is not turned on or when electrical or mechanical trouble occurs, the unit will not enter the door open mode with the above operations, and inserting the key cannot open the door. In this case, proceed in the following manner to open the door.

1. Turn the power of the main unit to OFF.
2. Insert a pin having a diameter of approx. 2 mm (or extended spike or clip, etc.) into the emergency hole to release the key lock. With this, you can turn the key to perform the door opening operation.


Key Cylinder
Panel
Emergency Hole

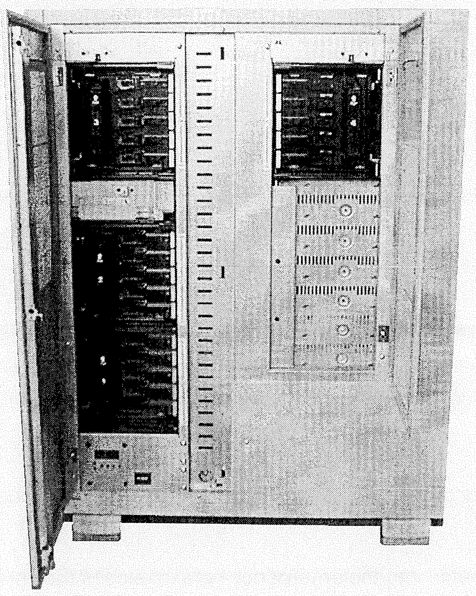
Removing the Panel

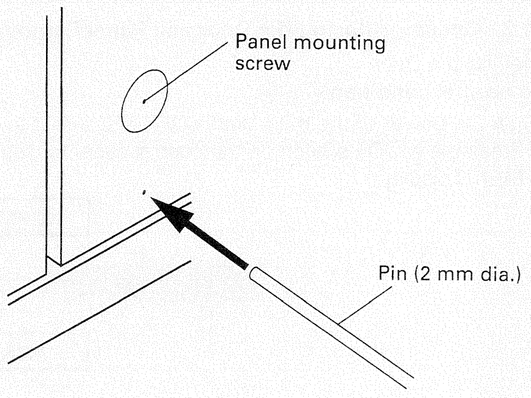
<In normal condition>

Turn the power OFF in standby mode, insert a pin into the emergency hole on the panel, and open the door using the key. Then remove the screw enabling the panel to be removed by sliding it to the right.

2.1.3 Removing the Magazine

1. Open the door. (Refer to 2.1.2.)

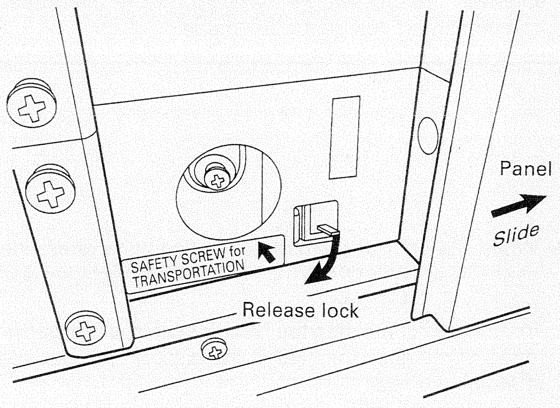



Panel mounting screw
Pin (2 mm dia.)

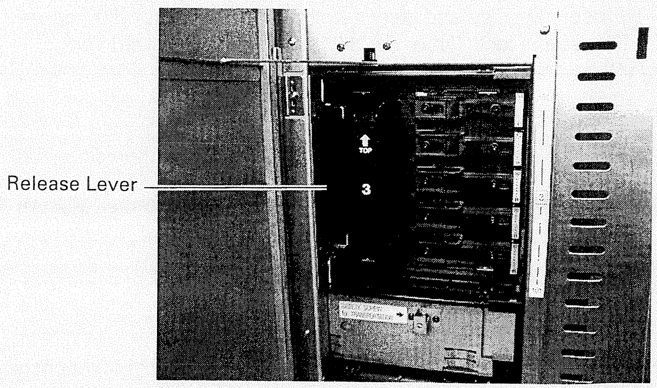
Removing the Panel

<When trouble occurs>

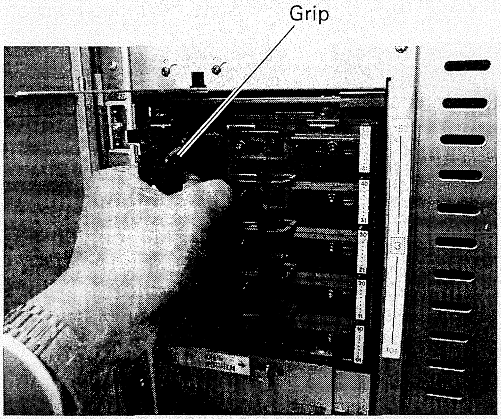
When trouble occurs with the carrier stopped at the lower section, remove the panel while release the lock by pressing down the lever shown in the diagram.


SAFETY SCREW for TRANSPORTATION
Release lock
Panel
Slide

2. Pull the release lever which locks the magazine toward you. The magazine is slightly protruded toward the front.


Release Lever

3. Grasp the grip to remove the magazine toward you.

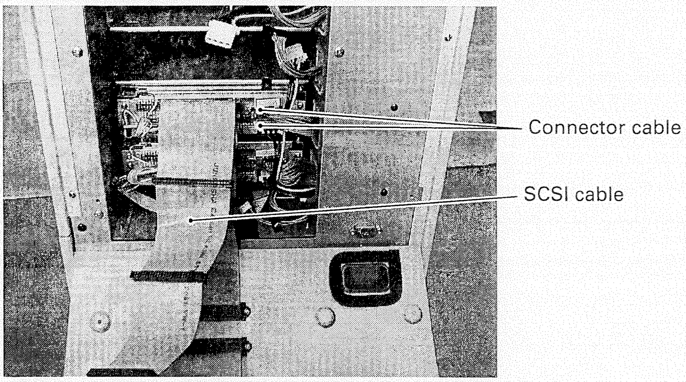


4. When loading the magazine, insert the magazine gently until it clicks.

2.1.4 Removing the Drive

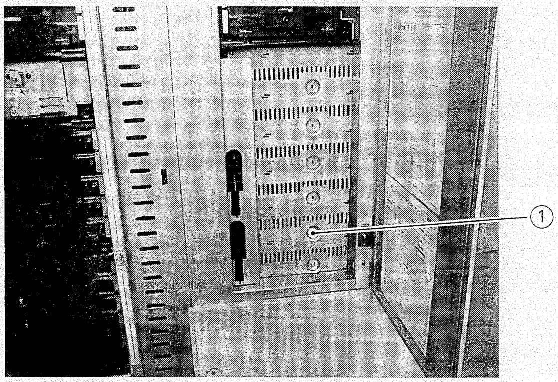
1. Open the door. (Refer to 2.1.2.)
2. Remove the rear panel (DH). (Refer to 2.1.8.)
3. Disconnect the two connector cables from the drive.
4. Disconnect all the SCSI cables from all the drives and the SCSI PCB. (When removing the drive in the uppermost slot among the currently mounted drives, disconnect the cable connected to the uppermost drive only.)

Photo shows situation when removing the Drive 2

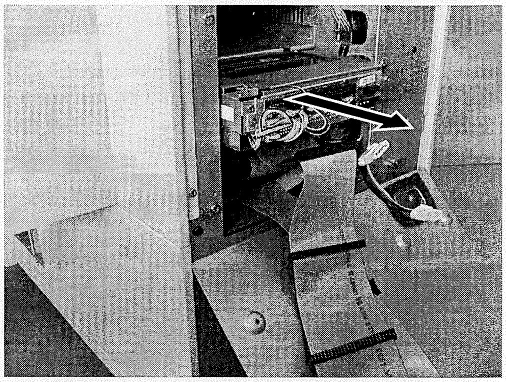


5. Remove the screw ① located on the side of the drive (door panel side).

Photo shows situation when removing the Drive 2

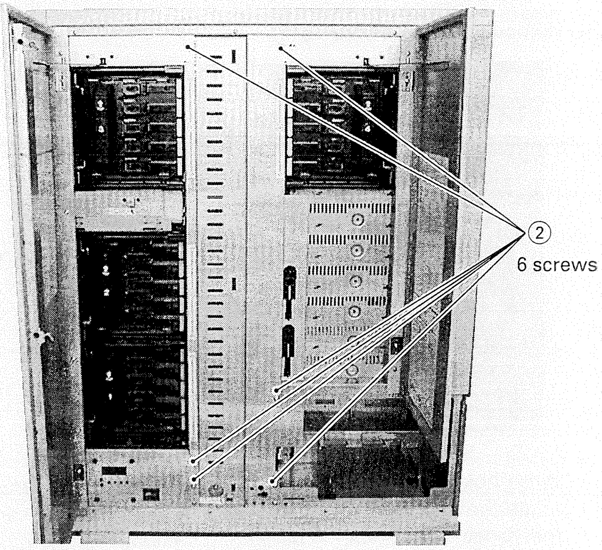


6. Remove the drive from the rear.



2.1.5 Removing the Center Panel

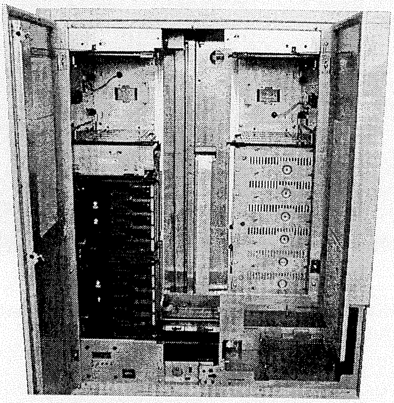
1. Open the door. (Refer to 2.1.2.)
2. Remove the panel. (Refer to 2.1.2.)
3. Remove the six screws ② to remove the center panel.



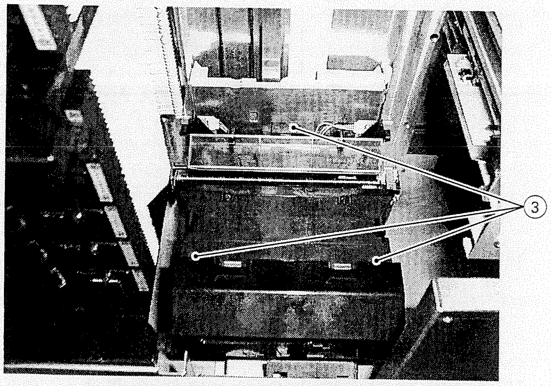
Note:
Center panel must be removed when removing the carrier mechanism.

2.1.6 Removing the Carrier Mechanism

1. Open the door. (Refer to 2.1.2.)
2. Remove the center panel. (Refer to 2.1.5.)
3. Remove the #3 and #4 magazines. (Refer to 2.1.3.)
   For the MC-8600U, remove the #3 and #4 magazines in the same way.

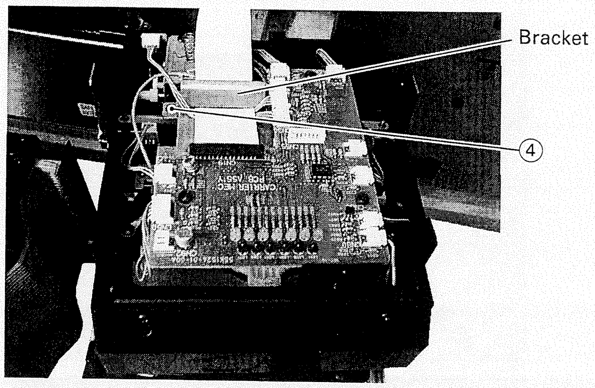


4. Remove the three screws ③.



5. While holding the lower section of the carrier mechanism, rotate the shaft of the U/D motor by hand to shift the carrier mechanism to the #3/#4 magazine position.

6. Remove the carrier mechanism upward.
7. Turn the carrier mechanism upside down, and remove the screws ④ retaining the flat cable mounting bracket.



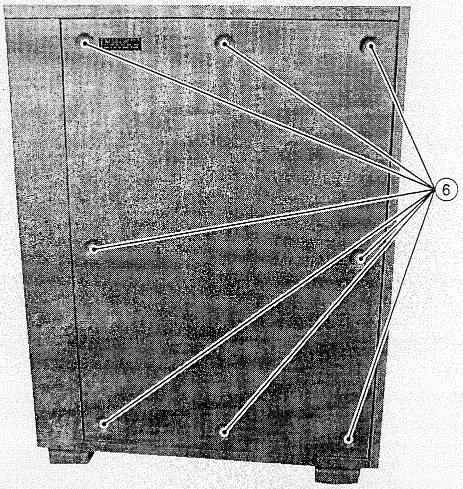
8. Release the flat cable connector lock and disconnect the flat cable to remove the carrier mechanism.

Note:
Pay attention not to damage the lock of the flat cable connector .

2.1.7 Removing the Side Panel

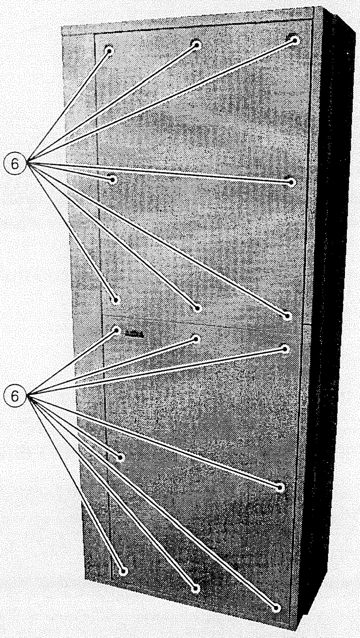
<MC-8200U>

1. Remove the eight screws ⑥ to remove the side panel.
   When removing the side panel, unscrew while holding the side panel with your hands. (To prevent the panel from dropping.)



<MC-8600U>

1. Remove the 16 screws ⑥ to remove the side panels.
   When removing the side panel, unscrew while holding the side panel by hand. Pay special attention to the upper side panel. (in order to prevent the panel from being dropped.)

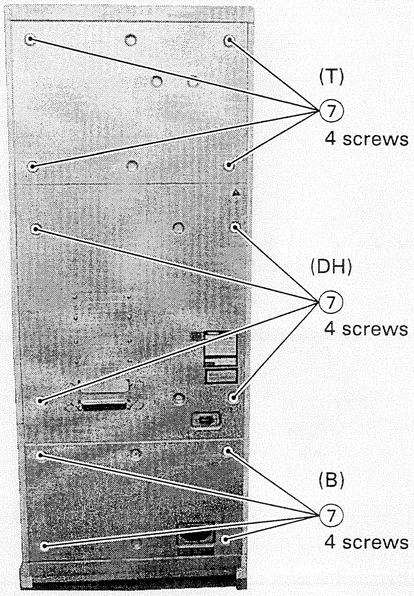


Note:
When removing the U/D motor and magazine sensor PCB, remove the upper side panel.

2.1.8 Removing the Rear Panel

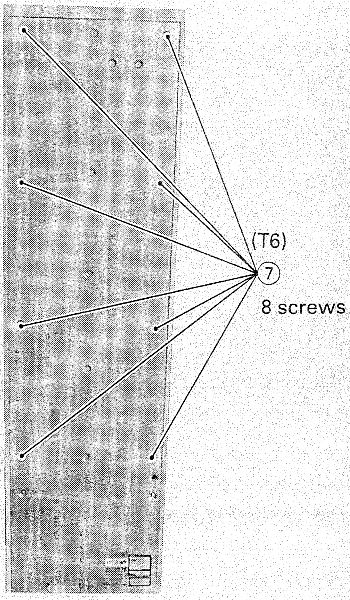
<MC-8200U>

1. Remove the three rear panels (T), (DH) and (B) by removing the four screws ⑦ for each.



<MC-8600U>

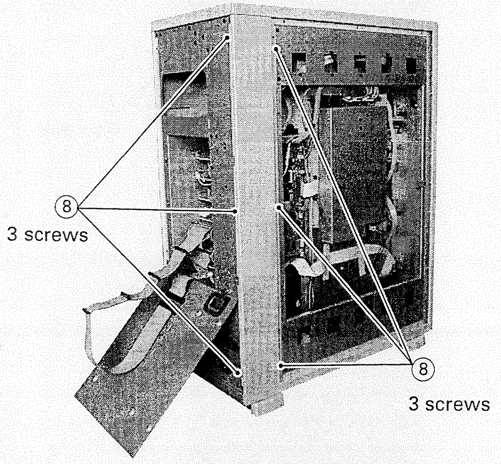
1. In the same way as MC-8200U, remove the two rear panels (DH) and (B).
2. Remove the eight screws ⑦ to remove the upper rear panel (T6).



Note:
When removing the power supply unit, chassis PCB or SCSI PCB, you don't have to remove the rear panels.

2.1.9 Removing the Exterior Side Panel

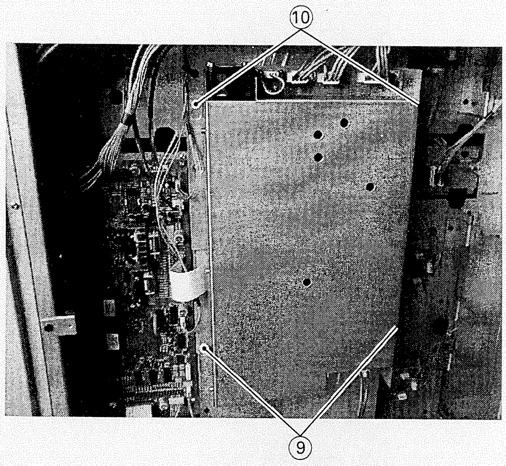
1. Remove the rear panel. (Refer to 2.1.8.)
2. Remove the side panel. (Refer to 2.1.7.)
3. Remove the six screws ⑧ (ten screws for MC-8600U), to remove the exterior side panel.



Note:
When removing the power supply unit, chassis PCB or SCSI PCB, there is no need to remove the exterior side panel.

2.1.10 Removing the Power Supply Unit

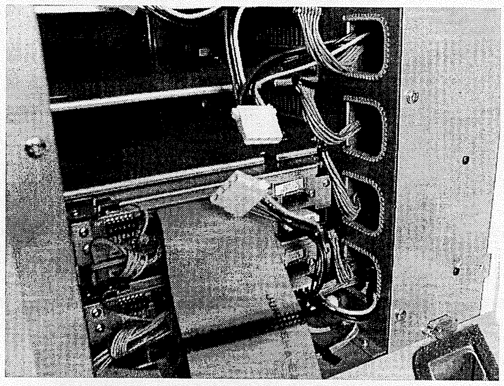
1. Remove the side panel. (Refer to 2.1.7.)
2. Disconnect the connector cables connected to the power supply unit.



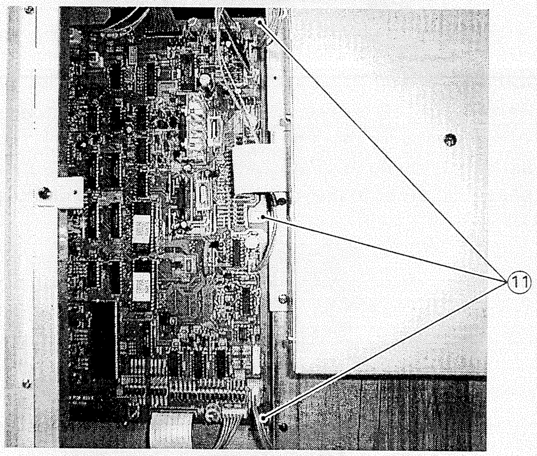
3. Remove the two screws ⑨.
4. Slightly loosen the two screws ⑩, and remove the power supply unit by sliding it upward.

2.1.11 Removing the Chassis PCB

1. Remove the rear panel (DH). (Refer to 2.1.8.)
2. Remove the side panel. (Refer to 2.1.7.)
3. Remove the chassis PCB and connector cables from the drive at the drive side. (Leave the cables connected to the drive power supply as they are.)



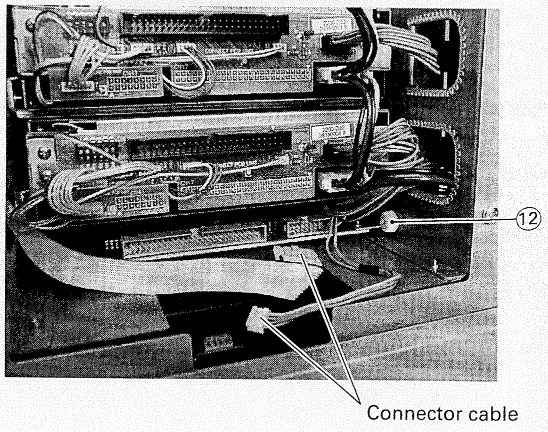
4. Disconnect the connector cables from the chassis PCB.
5. Remove the three screws ⑪.



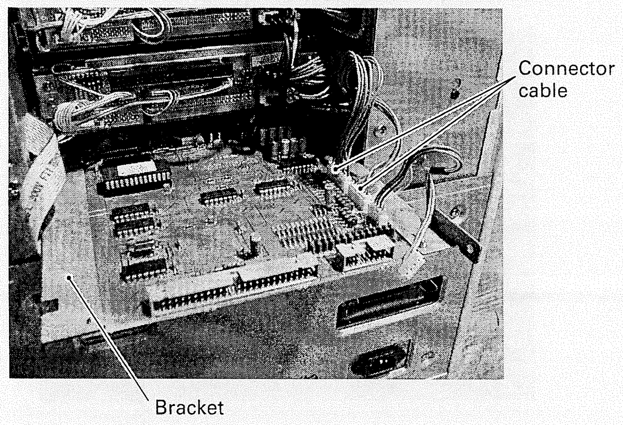
6. Slide the chassis PCB toward the left and pull it out from the right side.

2.1.12 Removing the SCSI PCB

1. Remove the rear panel (DH). (Refer to 2.1.8.)
2. Disconnect the two connector cables and all the SCSI cables connected to the SCSI PCB and the drives.

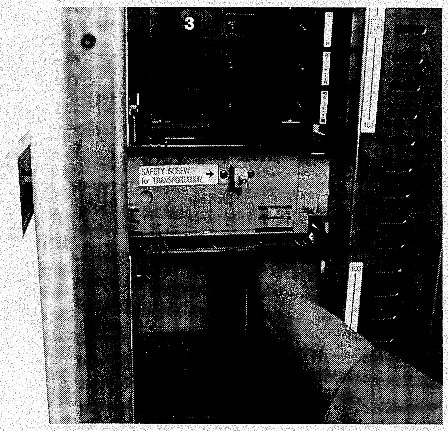


3. Remove the screw ⑫ and pull the SCSI PCB toward you until the connector at the right sides are exposed, then disconnect the two connectors from the chassis side.
4. Remove the SCSI PCB by pulling it toward you.
5. When mounting the SCSI PCB, insert it so that the PCB bracket passes under the guide rails.

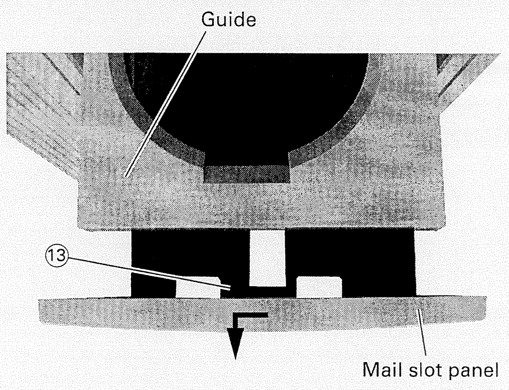


2.1.13 Removing the Mail Slot

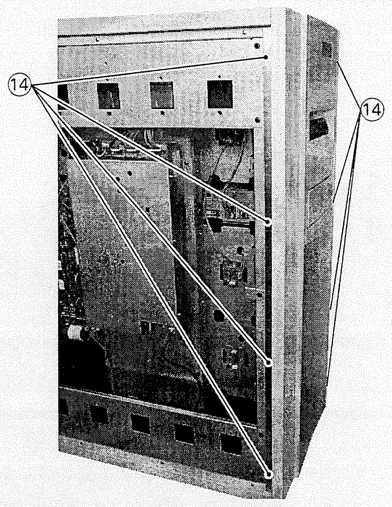
1. Open the door. (Refer to 1.1.2.)
2. Remove the side panel. (Refer to 1.1.7.)
3. Remove the #2 magazine. (Refer to 1.1.3.)
4. Insert your hand into the #2 slot and gently push the tray of the mail slot. Pay attention not to push the tray forcibly for it could damage the gear teeth.



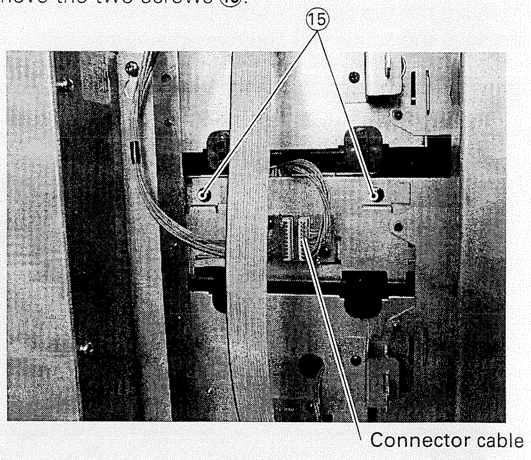
5. Gently pull out the mail slot tray toward you and push the guide to the main unit side. Remove the screws ⑬ and pull out the mail slot panel by sliding it toward the left.



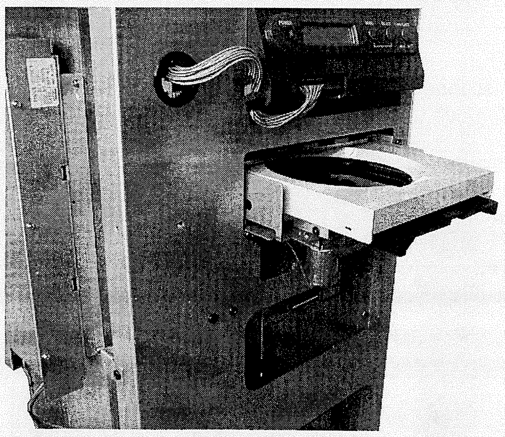
6. Remove the eight screws ⑭ to remove the front panel of the main unit.



7. Disconnect the connector cable on the mail CN PCB, and remove the two screws ⑮.

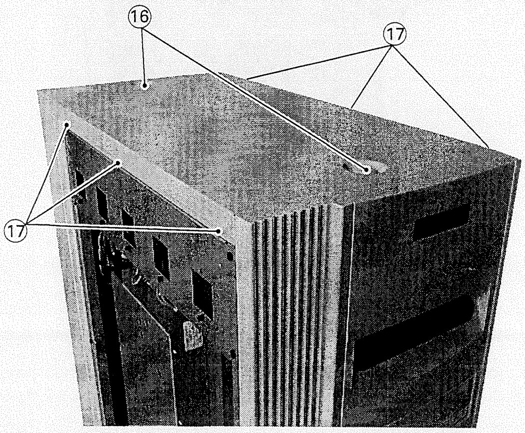


8. Remove the mail slot from the front of the main unit.



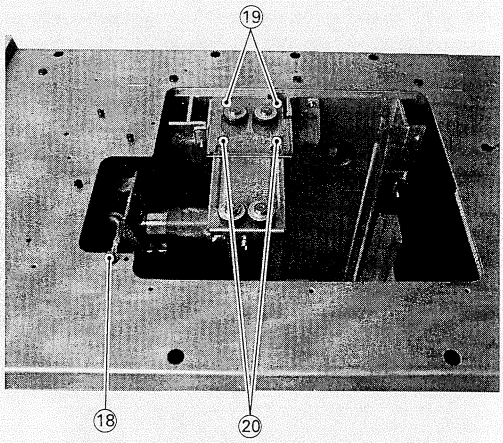
2.1.14 Removing the Top Panel

1. Open the door. (Refer to 2.1.2.)
2. Remove the side panel. (Refer to 2.1.7.)
3. Remove the two blind bolts ⑯ using a coin, etc.
4. Remove the six screws ⑰ to remove the top panel.

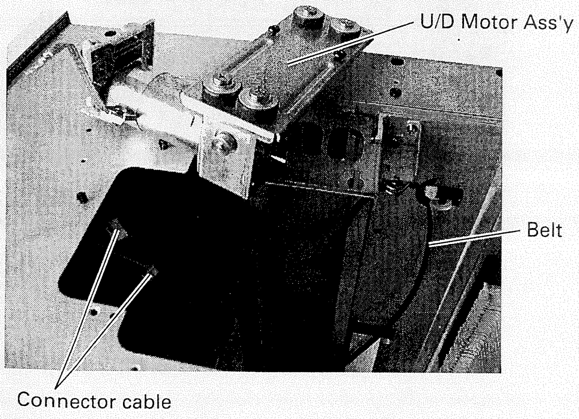


2.1.15 Removing the U/D Motor

1. Remove the top panel. (Refer to 2.1.14.)
2. Remove the screws ⑱ and two screws ⑲.
3. Loosen the two screws ⑳, and pull out the U/D motor by sliding it toward the door side.



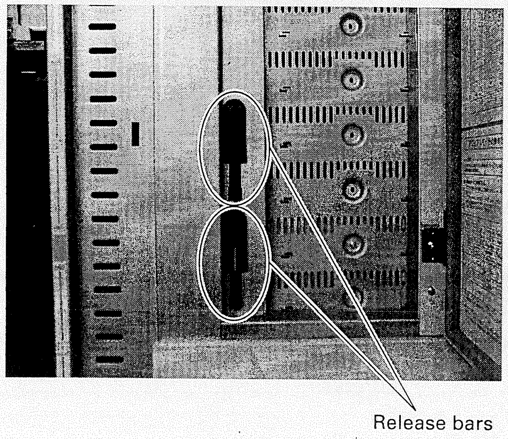
4. Disconnect the two connector cables from the U/D motor.
5. Remove the U/D belt to remove the U/D motor.



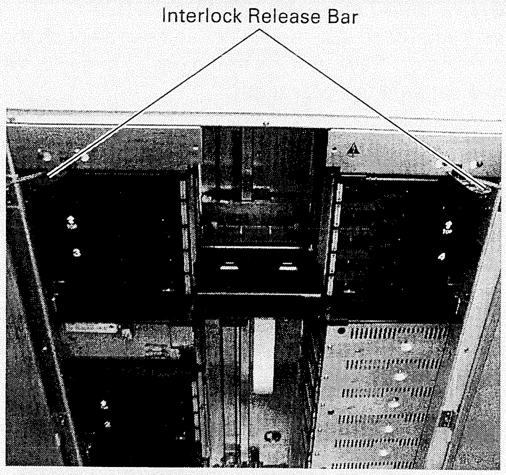
2.1.16 How to Operate with the Door Open (for Servicing)

For safety this unit is designed so as not to be operated with the door open. When operating the unit with the door open for maintenance or servicing, proceed in the following manner.

1. Open the door. (Refer to 2.1.2.)
2. Remove the two interlock release bars on the center panel which turns the interlock switch to ON.



3. With the door open, insert the interlock release bars into the interlock switch holes located at both the left and right sides.



4. With this operation, the unit enters the mode in the same way as with the doors closed, and you can operate the unit as normally.

2.2 Special Operation Mode

- **Operating Condition**
  The external control equipment must not be connected to the SCSI connector. (That is the CD/DVD Library is not operated as a part of the system.) If the special operation mode is activated in the system operating condition, the correct operation will not be guaranteed.
- **Mode Setting**
  As shown in the table below, the operation mode is determined depending on the status of each switch at the moment when the CD/DVD Library's power is turned ON.
  ("–" in the table below is the conventional symbol for OFF.)

M: Mode S: Select L/E: Load/Eject E: Enter 0-9: Numeric keypad

SW Status												Operation Mode	Page
M	S	L/E	E	0	1	2	3	4	5	8	9		
—	—	—	—	—	—	—	—	—	—	—	—	Normal mode	—
—	—	—	—	—	ON	—	—	—	—	—	—	Package mode	2-16
—	—	—	—	—	—	ON	—	—	—	—	—	Disc return mode	2-16
—	—	—	—	—	—	—	ON	—	—	—	—	Memory clear mode	2-16
—	—	—	—	—	ON	—	—	ON	—	—	—	Auto check mode	2-16
ON	—	ON	—	—	—	—	—	—	—	—	—	Disc tray check mode	2-16
—	ON	ON	—	—	—	—	—	—	—	—	—	Auto tray check ON/OFF switching	2-17
Running modes for use in factory production. Cannot be used in servicing.												Running mode (5) (Production running)	
												Running mode (1) (Mechanism running)	
—	—	—	ON	—	—	—	ON	—	—	—	—	Running mode (3) (Demonstration running)	2-11
—	—	—	ON	—	—	—	—	—	—	—	ON	Manual mode	2-11
—	—	—	—	—	—	—	—	—	—	ON	—	Drive detection mode	2-17

Other than the above, a self-check mode for use during maintenance is also available (by turning the power ON while pressing the MODE key).

* In the Disc Return, Memory Clear, Disc Tray Check or Auto Tray Check ON/OFF Select mode, the CD-ROM Library operates in the normal mode after the corresponding operation is completed.

* Since each operation mode other than normal mode (including Disc Return, Memory Clear, Disc Tray Check and Auto Tray Check ON/OFF Select modes) is performed with the door open, the interlock release lever must be inserted into the interlock switch hole. (Each of the mode will not operate correctly with the door open but without the interlock release bar because the 15V power is turned OFF.)

* Also if the printer panel is open, the 15V power is OFF and the Library operation is not available.)

2.2.1 Running Modes

1. Details of Running

* During running mode, the "RUNNING MODE" warning and the number of times appear on the LCD display. During demonstration mode, the "DEMONSTRATION MODE" warning and the number of times appear.

* All the magazines must be installed. (However the demonstration mode automatically detects the presence of magazines, and only the installed magazines are accessed.)

① Demonstration Mode

(1) Purpose

This mode is used to perform a demonstration of the CD/DVD changer operation.

(2) Start

While pressing the "ENTER" key and the numeric key "3" simultaneously, turn the power ON.

* It is not necessary to set the discs on each tray. (A disc presence check is not performed.)

(3) Operation

Repetition of crossing operation.

Disc Access (MC-8200U: when drives 1 and 2 are connected)

- Crossing Operation

Count	Access Address
0001	"200" → DR1 → "200"
0002	"001" → DR2 → "001"
0003	"199" → Mail slot → "199"
0004	"002" → DR1 → "002"
0005	"198" → DR2 → "198"
0006	"003" → Mail slot → "003"
0099	"101" → DR1 → "101"
0100	"100" → DR2 → "100"

(4) Operation Stop

When the numeric key "3" is pressed during demonstration, the operation stops after the disc being accessed is returned to the original magazine.

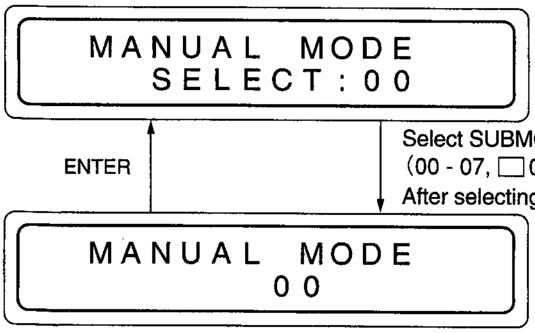
(5) Operation Restart

When the "ENTER" key is pressed in the demonstration-stop mode, the operation restarts from the tray next to the one being accessed the previous time.

2.2.2 Access Counter Clearance

1. Set to display the contents shown on page 29 of the instruction manual.
2. Hold the SELECT key until the unit to be cleared appears in the 1st line.
3. With the unit counter to be cleared shown on the 1st line, hold the ENTER key for more than 5 seconds.

2.2.3 Manual Operation



Select SUBMODE using the numeric keys
(00 - 07, □0 - □1; □: 1 - 4)
After selecting, press ENTER key

Pressing numeric key 1 - 5 activates the corresponding operation
(refer to the table on the next page).

① Carrier Manual Operation

· Carrier upward operation (SUBMODE = 00)

Function	Numeric key	Details
Upward normal move	1	During key is ON (Condition: Tray lock initial position)
Upward low-speed move	2	During key is ON (Condition: Tray lock initial position)
Upward 1-slit move toward left	3	Each time key is ON (Condition: Tray lock initial position)
Upward 1-slit move toward right	4	Each time key is ON (Condition: Tray lock initial position)
Upward 1-step advance	5	Each time key is ON (Condition: Tray lock initial position)

· Carrier downward operation (SUBMODE = 01)

Function	Numeric key	Details
Downward normal move	1	During key ON, until lower limit sensor is reached (Condition: Tray lock initial position)
Downward low-speed move	2	During key ON, until lower limit sensor is reached (Condition: Tray lock initial position)
Downward 1-slit move toward left	3	Each time key is ON (Condition: Tray lock initial position)
Downward 1-slit move toward right	4	Each time key is ON (Condition: Tray lock initial position)
Downward 1-step advance	5	Each time key is ON (Condition: Tray lock initial position)

· Tray lock/release operation (SUBMODE = 02)

Function	Numeric key	Details
Left tray lock release	1	During key ON, until left tray lock is released
Tray lock initial	2	Each time key is ON
Right tray lock release	3	During key ON, until right tray lock is released

· Catcher operation (SUBMODE = 03)

Function	Numeric key	Details
Catcher leftward move	1	During key is ON
Catcher rightward move	2	During key is ON

· Tray pickup/return operation (SUBMODE = 04)

Function	Numeric key	Details
Left tray auto loading	1	Each time key is ON (Condition: Tray lock initial, Catcher position right)
Right tray auto loading	2	Each time key is ON (Condition: Tray lock initial, Catcher position left)
Tray auto return	3	Each time key is ON (Condition: Tray lock initial, Catcher position left or right)

* Left (Right) Tray Auto Loading Operation

1. Catcher moves toward left (right) → 2. Left (right) tray lock release → 3. Tray pickup

* Tray auto return operation

1. Catcher moves toward the direction of the tray lock pin (Tray return) → 2. Tray lock initial When the printer operation is performed, set the disc-in tray on the printer beforehand.

· Mail slot operation (SUBMODE = 05)

Function	Numeric key	Details
Mail slot ejecting	1	During key is ON, until eject position is reached
Mail slot loading	2	During key is ON, until loading position is reached

· Optional printer operation (SUBMODE = 06)

Function	Numeric key	Details
Printer ejecting	1	Each time key is ON, until ejecting position is reached
Printer loading	2	Each time key is ON, until loading position is reached

· Disc inversion operation when an inversion carrier is installed (SUBMODE = 07)

Function	Numeric key	Details
Arm upward movement	1	During key is ON (Condition: Tray lock initial)
Arm downward movement	2	During key is ON (Condition: Tray lock initial)
Disc inversion	3	Every time key is ON (Condition: Tray lock initial)

② Drive Manual Operation

· Clamping & Clamping release operation (SUBMODE = ☐ 0) ☐ : Drive No. 1 - 4

Function	Numeric key	Details
Drive clamping	1	During key is ON, until clamping position is reached
Drive clamping release	2	Each time key is ON

When the MC-R200U drive is used and the tray is in the drive, the clamping release operation is activated 3.5 seconds later (however, the 1st operation for each drive starts after 7 seconds) the key is turned ON (the motor starts rotating) to wait until the disc revolution stops.

· Play operation (SUBMODE = ☐ 1) ☐ : Drive No. 1 - 4

Function	Numeric key	Details
Play ON	1	Each time key is ON (Condition: CD-ROM disc must be clamped)
Play OFF	2	Each time key is ON (Condition: CD-ROM disc must be clamped)

2.3 Self-Diagnostic Display

When a trouble occurs, this unit repeats the required process and then stops operation. In case of the trouble on a drive, the defective drive is cut by the host PC and the operation continues with the other drives. When the trouble occurs on all drives, this unit enters the mechanism stop operation. (The power indicator blinks when trouble occurs in all cases and the error massage is displayed on the LCD screen.)

The trouble codes of the last eight times are stored in the memory and maintained even when the power is turned off.

2.3.1 Displaying Trouble History

(Operate with front panel switch to display on the LCD)
How to display trouble history

① Press the MODE switch to show the MENU display.

MENU display

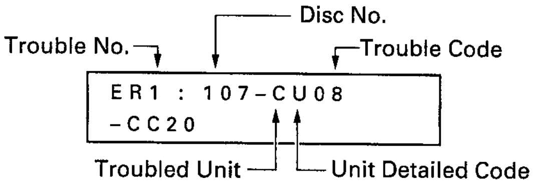
```
1. NORMAL DISPLAY
2. ERROR DISPLAY
```

② Press the SELECT switch to select the trouble history display mode.

```
2. ERROR DISPLAY
3. ID NO. DISPLAY
```

③ Press the MODE switch to display the trouble history. When an error occurs continuously in a single trouble history, the detailed information is displayed in the second row.

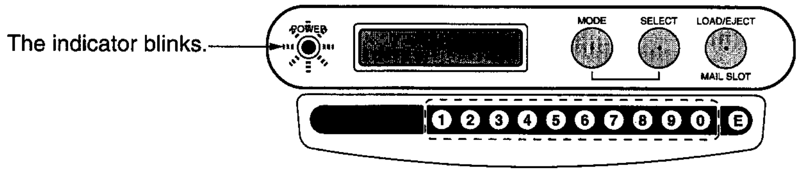
④ Each time the SELECT switch is pressed, the trouble history is changed in sequence.



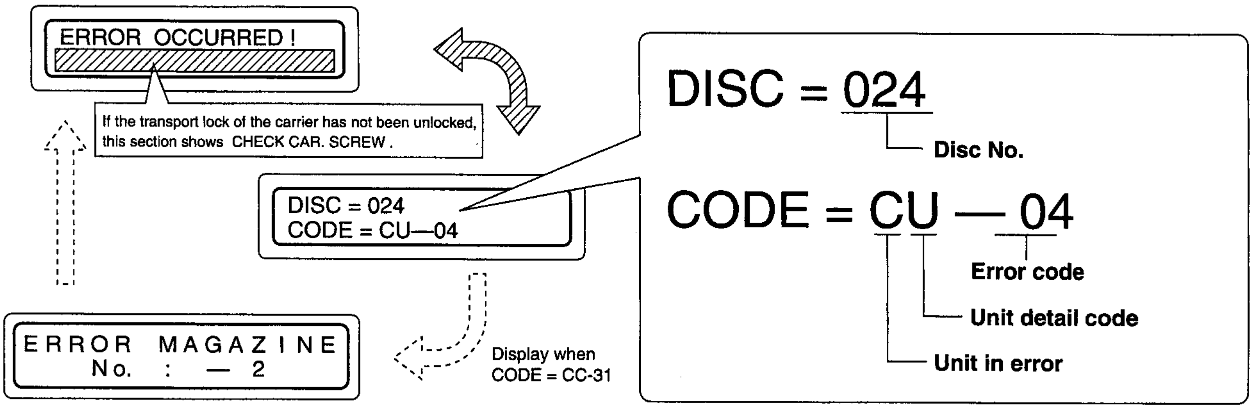
C : Carrier
M : Mail Slot
D1 - D6 : Drive

2.3.2 Display When Trouble Occurs

In case of an error, the front panel indicator blinks and the LCD shows the error details by overriding any other information.


The indicator blinks.
POWER
MODE
SELECT
LOAD/EJECT
MAIL SLOT
1 2 3 4 5 6 7 8 9 0
E

LCD displays in case of error


ERROR OCCURRED !
If the transport lock of the carrier has not been unlocked, this section shows CHECK CAR. SCREW .
DISC = 024
CODE = CU—04
ERROR MAGAZINE
No. : — 2
Display when CODE = CC-31
DISC = 024
Disc No.
CODE = CU — 04
Error code
Unit detail code
Unit in error

Disc No. : Shows the disc No. being accessed at the moment of error occurrence. "---" is displayed if no disc is accessed at the moment of error occurrence.

Units in error and unit detail codes

Unit in error		Unit detail code	
C	Carrier	U	Up/down
		L	Tray lock
		C	Catcher
		D	Disc
		F	Flip
M	Mail slot	E	Ejection
		L	Loading
		T	Tray
D1 to D4	Drive	T	Tray
		C	Clamp
		E	Ejection
		D	Disc
		S	Spindle
P	Color Disc Printer	T	Tray

2.3.3 Erasing the Trouble History

The error history can be cleared by pressing ENTER key for more then 5 seconds during displayed error history.

2.3.4 Error code list

Device	Device part	Error code	Description
C	U	01	UP/DOWN rotary sensor does not change
		02	Left slit sensor does not change
		03	Right slit sensor does not change
		04	UP/DOWN motor does not function
		07	UP/DOWN motor drive short-circuits and over-current is detected
		08	UP/DOWN operation exceeds the predetermined duration
		09	Lower limit sensor turn on during UP/DOWN operation
C	L	10	Tray lock release not possible
		11	Tray lock impossible, or lane change not possible
		12	Tray lock does not exist at the initial position during carrier movement
C	C	20	Catcher (right → left) movement operation exceeds the predetermined duration
		21	Catcher (left → right) movement operation exceeds the predetermined duration
		22	Catcher (right → left) convergence operation exceeds the predetermined duration
		23	Catcher (left → right) convergence operation exceeds the predetermined duration
		24	Catcher (right → left) tray rotary sensor does not change
		25	Catcher (left → right) tray rotary sensor does not change
		26	Right catcher sensor does not turn on
		27	Left catcher sensor does not turn on
		28	Catcher motor (right → left) does not function
		29	Catcher motor (left → right) does not function
		30	Tray does not exist
		31*2	Magazine insertion incomplete, or sensor defective
		32	Over-current is detected during catcher motor operation
C	D	41	Destination-unknown tray exists on the carrier
		42	No disc in the tray
		43	Flip tray does not exist
	F	80	During the flip raise operation, the expected time required is over
		81	During the flip descent operation, the expected time required is over
M	E	50	Mail Slot ejecting is not possible
	L	51	Mail Slot loading is not possible
	T	52	Destination-unknown tray exists in the Mail Slot
(D#)*1	T	60	Destination-unknown tray exists in the Drive and the control cable of the Drive is disconnected.
		61	Tray removal is not possible at the drive position
	C	62	Disc clamp of the drive does not function
	E	63	Drive ejection is not possible
	D	64	Failure to remove the disc from the drive
	S	65	Spindle motor fails to stop
P	T	72	Destination-unknown tray exists in the Label Printer

*1: # represents the drive number.

*2: Check the magazine loading condition.

2.4 Auto Check Mode

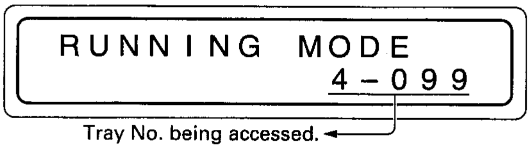
(1) Purpose:
Simply checks the tray transfer operation for all units.

(2) Control:
Set the release bars, then turn the power to ON while pressing the key "1" and "4"on the 10-key Pad.
Check that there is no tray in the drive or mail slot. If this is not sure, first perform the tray auto return mode operation described in 2.6.

(3) Operation:
Accesses to the 2nd address (Tray No. 49 in the magazine) from the top and the 2nd address (Tray No. 02 in the magazine) positions, drive and mail slot positions.

Operation Sequence
(MC-8200: when drive 1and 2 are connected)
① Address 199 → Drive 1 → Address 199
② Address 152 → Drive 2 → Address 152
③ Address 149 → Mail Slot → Address 149
④ Address 102 → Address 102
⑤ Address 99 → Address 99
⑥ Address 52 → Address 52
⑦ Address 49 → Address 49
⑧ Address 2 → Address 2

(4) Display during auto check mode



Tray No. being accessed.
However, "END" appears when finished.

2.5 Packaging Mode

(1) Purpose:
For shipping the library's main unit, the carrier mechanism is moved to the fixing position located at the lower end of the unit and the drive is clamped.

(2) Activation:
Set the release bars, then turn the power to ON while pressing the key "1" on the 10-key Pad.

(3) Operation: (when Drives 1 and 2 are connected)
① Performs carrier initial operation.
② Checks whether the tray is left in the mail slot or not. If the tray is left, it is returned to the magazine.
③ Checks whether the tray is left in the drive 1 or not. If the tray is left, it is returned to the magazine.
④ Checks whether the tray is left in the drive 2 or not. If the tray is left, it is returned to the magazine. (The same operation is performed when drives 3 to 6 are installed.)
⑤ Moves the carrier mechanism to the shipping position.
⑥ Performs clamping operation for the drive 1.
⑦ Performs clamping operation for the drive 2. (The same operation is performed when the drive 3 to 6 are installed.)

2.6 Tray Auto Return Mode

(1) Purpose:
If the tray is left in the drive or the mail slot, performs the operation to return the tray to the original magazine.

(2) Control:
Set the release bars, then turn the power to ON while pressing the key "2"on the 10-key Pad.

(3) Operation:
① Performs carrier initial operation.
② Check whether the tray is left in the drive 1 or not. If the tray is left in, it is returned to the memorized magazine.
③ The same operation as (2) is performed for drives 2 to 6 respectively.
④ Checks whether the tray is left in the mail slot or not. If the tray is left in, it is returned to the memorized magazine.
⑤ Operation completed.

2.7 Disc/Tray Check Mode

(1) Purpose:
Checks the presence/absence of the tray/disc in the magazine and stores the information in the CPU as the mapping data.

(2) Control:
While pressing the MODE switch and LOAD/EJECT switch simultaneously, turn the power ON.

(3) Operation:
① Performs carrier initial operation.
② Takes up the tray in the address "001" on the carrier and checks the tray and disc, then returns it to the original position.
③ Performs the operation described in (2) for addresses till "200" (address "600" for MC-8600U).
④ Operation completed.

2.8 Memory Clear Mode

(1) Purpose:
Clears the backup memory for the mechanism CPU and SCSI CPU, including to reset the disc/tray mapping data and SCSI ID of the main unit, etc.

(2) Control:
While pressing the key "3"on the 10-key Pad., turn the power ON.

(3) Operation:
① Performs the tray auto return mode operation.
② Clears the backup memory for the mechanism CPU and SCSI CPU.
* Be sure not to turn the power OFF until the mechanism operation is completed because the memory is cleared after the trays left in the drive/mail slot are returned.
③ Operation completed.

2.9 Drive Detection Mode

(1) Purpose

Drives are detected in order to prevent simultaneous installation of different drives.

(2) Start

While pressing the "8" key, turn the power ON.

(3) Operation

After the initial operation, each of the installed drives performs the ejection operation for identification.

LCD display during drive detection

```
DETECTING  DRIVES
 . . . . PLEASE WAIT
```

LCD display after drive detection

```
DRIVE  DETECTION
       COMPLETED
```

Note: Whenever a drive is added, replaced or removed after the last drive detection, be sure to repeat drive detection.
*** If this is omitted, a mechanism malfunction may result.**

*** Be sure to turn the power OFF and then ON again after drive detection.**

2.10 Maintenance Mode

2.10.1 Outline

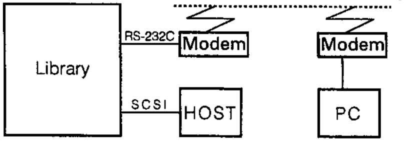
This unit is also equipped with an RS-232C port as an interface for external equipment other than the SCSI interface which is used for connection to the host computer. The RS-232C port is used mainly for the following two purposes:

(a) Remote Maintenance:
It can be used for remote diagnostic operation by connecting to the public telephone line via a modem.

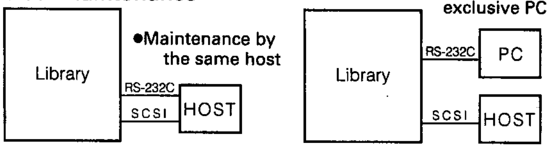
(b) Direct Maintenance:
It can be used for diagnostic operation by direct connection to a computer, etc.

In either way, while this unit is operated in the system the mechanical operation checking, which is one of the checking functions of the self-diagnosis operation, is not available.

(a) Remote maintenance



(b) Direct maintenance


•Maintenance using exclusive PC
Library
•Maintenance by the same host
RS-232C
SCSI
HOST
Library
RS-232C
PC
SCSI
HOST

*Judgment whether remote or direct maintenance Checks whether the modem is connected or not when the power is turned ON, and judges the unit is in the "remote maintenance" or "direct maintenance" mode.

· The modem control AT command (Z: Reset) is transmitted to the RS-232C port. And if there is a response, the unit is operated as the "remote maintenance" mode, and if there is no response, the unit is operated as the "direct maintenance" mode.

NOTES:

In the "direct maintenance" mode, the host computer must not respond to an AT command.

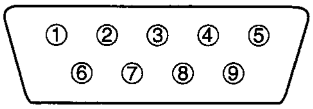
2.10.2 Electrical Specifications

- Signal Format

Signal Level	RS232C
Communication System	Asynchronous half-duplex
Transfer Rate	9600 bps
Character	Start bit: 1
	Data: 8 bits
	Parity: None
	Stop bit: 1
Codes used	ASCII character code
Modem Control Command	Compliant to Hayes AT command
Compatible Modem	ITU-T V.32

- Connector: D-Sub 9-pin (male)
- Pin Layout

①	DCD (IN)	⑥	DSR
②	RXD (IN)	⑦	RTS (OUT)
③	TXD (OUT)	⑧	CTS (IN)
④	DTR (OUT)	⑨	NC
⑤	S-GND		



2.10.3 Maintenance Types and Conditions

① Operating environment status
Outputs the environmental conditions including the type of this unit (Model No.), status of connected drives, SCSI ID No. setting and ROM version, etc.

② Trouble contents check
Outputs the trouble information stored in this unit.

③ Self diagnostic function
Performs the preset specific operations and outputs the results as the status. Operations ① and ② are available at any time. The operation ③ is available only when this unit is in the maintenance mode. Regardless of the currently selected maintenance mode (remote or direct), all the peripheral components must be turned on before turning on the power to this unit.

2.10.4 Activating the Maintenance Mode

To activate the maintenance mode with this unit...

① Set the maintenance disc in the address 1 before turning the power ON.

② While pressing the MODE switch on the front panel, turn the power switch to ON.

2.10.5 Maintenance Program

To perform maintenance on this unit, the maintenance program software must be installed on the PC connected.

2.11 Auto Disc/Tray Check ON/OFF Setting

On shipping, auto disc/tray checking function is set to ON which automatically checks the discs loaded in the magazine after the magazine is loaded or unloaded with the power ON. This setting can be switched OFF in the following manner.

1. Changing the setting
   While pressing the SELECT switch and the LOAD/EJECT switch located at the side of the LCD, turn the power ON. The operation mode is alternated between ON and OFF. The default setting is ON (auto check function is activated). With the above operation, the setting is changed to OFF (auto check function is deactivated).
2. How to check the current setting
   · Hold down the MODE switch beside the LCD for more than 5 seconds. The current setting is displayed on the LCD.

AUTO DISC CHECK :
ON

AUTO DISC CHECK :
OFF

3. Others
   · This setting is maintained after the power is turned off. Changing the setting requires the operation described in 1.

2.12 Maintenance and Periodical Check

The following shows an example of a maintenance reference chart when this unit is used with two drives for 50,000 times a year. Maintenance period differs depending on the using conditions, etc.

Item	Maintenance Intervals						Maintenance Contents
	1yr	2yrs	3yrs	4yrs	5yrs	6yrs	
Carrier	○	○	△	○	○	●	Grease (See Disassembly view.)
U/D Motor Unit	○	○	○	○	○	●	
Mail slot	–	–	–	–	–	○	
Drives	○	○	●	○	○	●	
Air filter unit	–	–	△	–	–	●	Clean filter
Magazine	–	–	△	–	–	△	Clean tray

● : Replacement. △ : Maintenance. ○ : Operation check.

Operation check contents

Item	Check Contents
Carrier	Presence/absence of abnormal sound or backlash, Roller defect/wear, No defect on carrier FCC cable
U/D motor assembly	Presence/absence of abnormal sound or backlash
Mail slot	Presence/absence of abnormal sound or backlash
Drives	Readout speed check using exclusive software
Magazines	Cleaning of tray in the position where frequently used (wipe off dust)

NOTES:

1) The maintenance and replacement intervals for the CD/DVD library are variable depending on the operating conditions such as the number of additional optional drives and the frequency of use. It is recommended to replace each drive after every 30,000 disc loading cycles. To check the operation of the CD/DVD drive, perform recording and playback of the exclusively designed CD/DVD disc.
2) The service life of the CD/DVD drive is variable depending on the write count (the total time spent in the write mode).
3) Each disc carrier tray should be replaced after every operation count of 10,000 cycles.
   An operation refers to each operation cycle of the carrier. When the carrier has pulled out a magazine tray, inserted a disc in it and then returned it to its original magazine, the operation count becomes 2.
4) When an MC-CF10 optional carrier is used, it is recommended that it should be replaced after 300,000 inversion operations.
   The inversion count can be checked as describe in section "11. Access Count" of the instruction manual.

2.13 Countermeasures Against Mechanical Trouble (For MC-R400U)

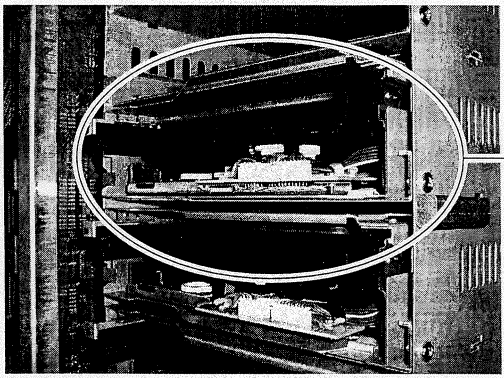
1. How to remove a disc which remains in the drive

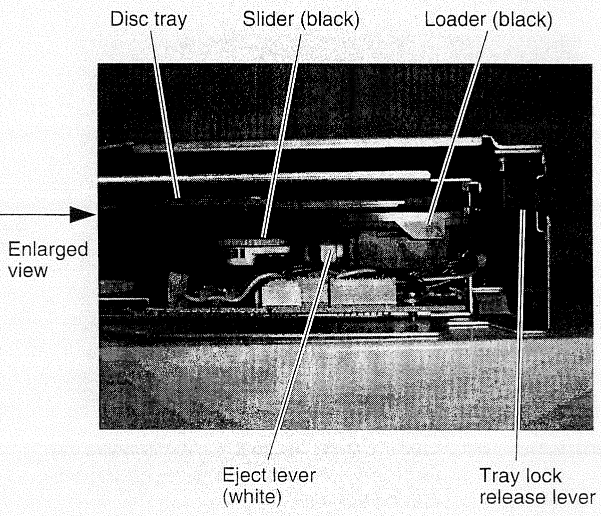
(1) When the carrier is not located in front of the drive

① Set the manual mode, then set the sub-mode to [00] or [01] using the 10-key, and press the numeric key 2 to move the carrier close to the upper or lower limit.

② Ensure that the disc is not rotating.

③ Using a screwdriver or thin rod, push the drive eject lever in to eject the drive thus making it possible for the tray to be pulled out.





(Caution) When removing the disc, be careful not to leave fingerprints or to otherwise damage the recording surface (underside) of the disc.

(Caution) Use care in handling the flat cable of the carrier

(2) When the carrier is located in front of the drive

① Set the manual mode. If the tray lock lever on the carrier mechanism is projected, set the sub-mode to [02] using the 10-key and press the numeric key 2 to release the tray lock.

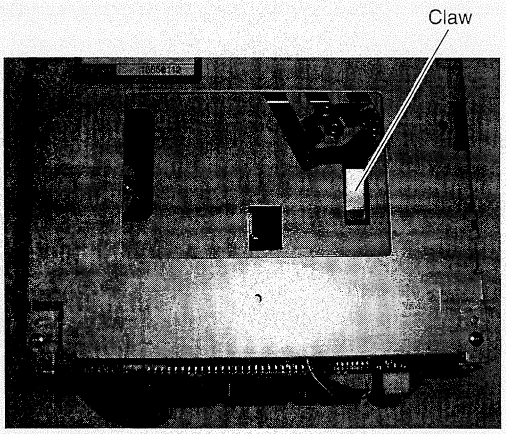
② Set the sub-mode to [00] or [01] using the 10-key, then press the numeric key 2 to move the carrier.

③ Take out the tray by performing the steps described in (1).

2. Caution for manual servicing operation

① While the tray lock lever is projected, the carrier cannot be moved up or down in the carrier mechanism. Perform the operations described in section 1- (2) - ① above.

② If the loader of the drive is located in the deep and will not come out, pull it while slightly lifting the claw on top of the drive. (Pay attention not to transform the claw.)



2.14 Countermeasures Against Mechanical Trouble (For MC-R200U)

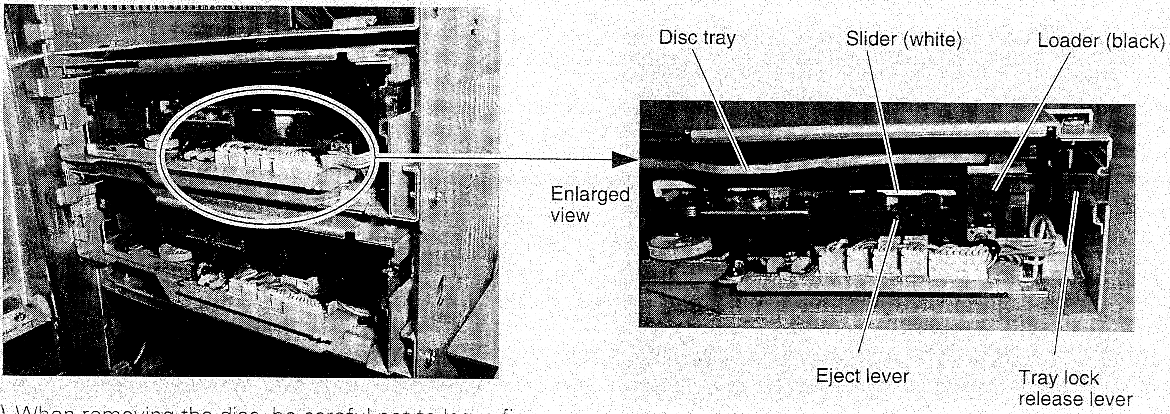
1. How to remove a disc which remains in the drive

(1) When the carrier is not located in front of the drive

① Set the manual mode, then set the sub-mode to [00] or [01] using the 10-key, and press the numeric key 2 to move the carrier close to the upper or lower limit.

② Ensure that the disc is not rotating.

③ Using a screwdriver or thin rod, push the drive eject lever in to eject the drive thus making it possible for the tray to be pulled out.



(Caution) When removing the disc, be careful not to leave fingerprints or to otherwise damage the recording surface (underside) of the disc.

(Caution) Use care in handling the flat cable of the carrier

(2) When the carrier is located in front of the drive

① Set the manual mode. If the tray lock lever on the carrier mechanism is projected, set the sub-mode to [02] using the 10-key and press the numeric key 2 to release the tray lock.

② Set the sub-mode to [00] or [01] using the 10-key, then press the numeric key 2 to move the carrier

③ Take out the tray by performing the steps described in (1).

2. When the disc (tray) is located inside the carrier mechanism

① Set the manual mode, then set the sub-mode to [02] using the 10-key, and press the numeric key 2 to release the tray lock.

② Remove the magazine to a position apart from the carrier mechanism.

③ Set the sub-mode to [00] or [01] using the 10-key, then press the numeric key 2 to move the carrier to the position where the removed magazine is located.

④ Set the sub-mode to [02] using the 10-key, then press the numeric key 1 or 3 so that the tray lock lever is projected toward the position where the removed magazine is located.

⑤ Take out the tray from the position where the removed magazine is located.

3. When the disc (tray) is located between the carrier and the magazine, drive or mail slot

① Set the manual mode, then set the sub-mode to [03] using the 10-key, and press the numeric key 1 or 2 to move the tray toward the carrier, magazine, drive or mail slot.

② If the tray is pulled inside the carrier mechanism, see "2" above.

③ If the tray is pulled inside the drive, see "1" above.

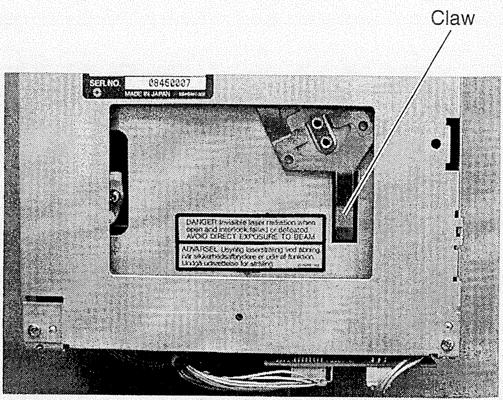
④ If the tray is pulled inside the mail slot, move the carrier mechanism then push the tray lock release lever of the mail slot in order to remove the tray.

4. Caution for manual servicing operation

① While the tray lock lever is projected, the carrier cannot be moved up or down in the carrier mechanism. Perform the operations described in section 2-Å above.

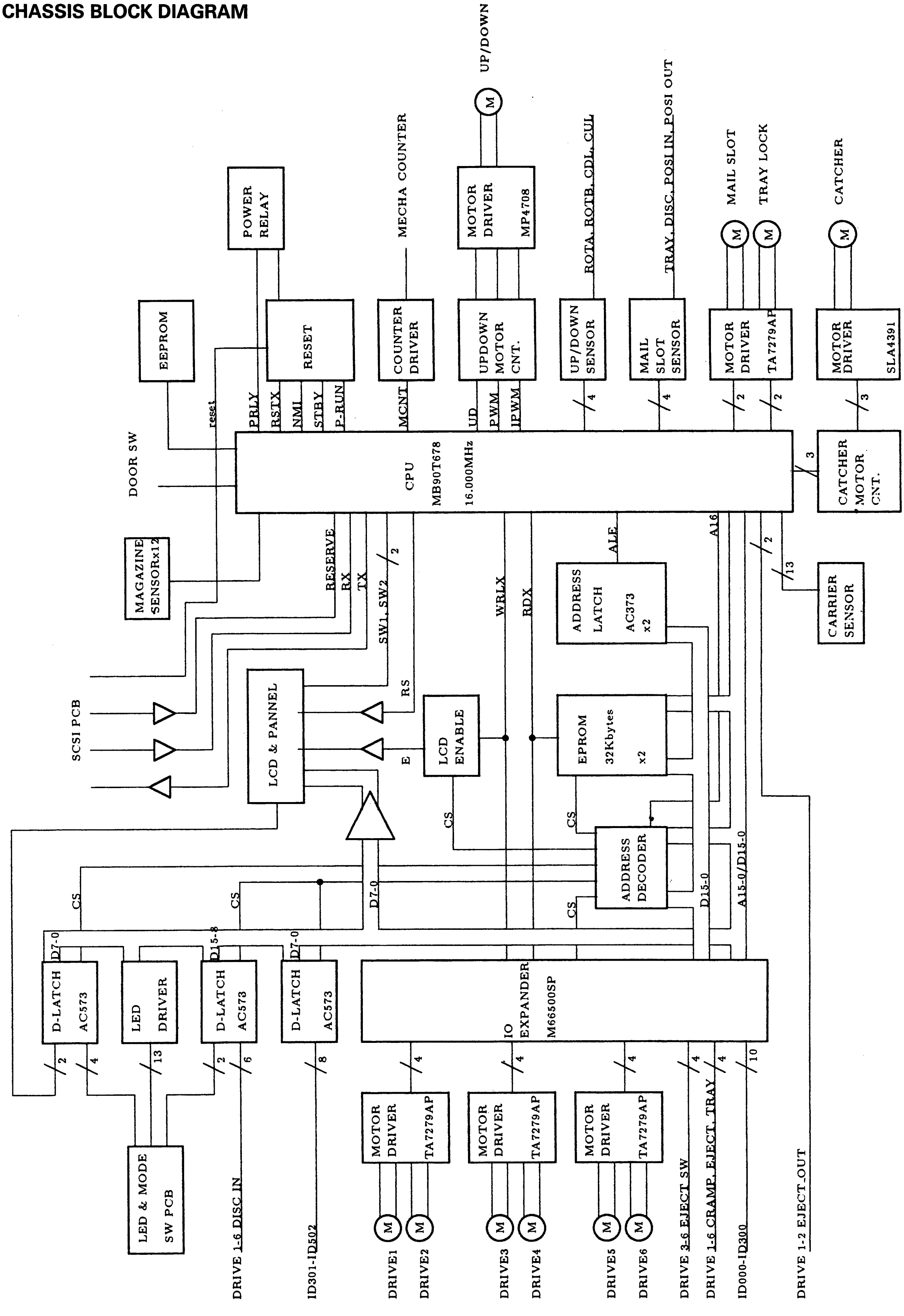
② The magazine rack cannot be removed when in the position located by the carrier mechanism. Move the carrier mechanism away before removing the magazine. (Operation in 1-(1))

③ If the loader of the drive is located in the deep and will not come out, pull it while slightly lifting the claw on top of the drive. (Pay attention not to transform the claw.)

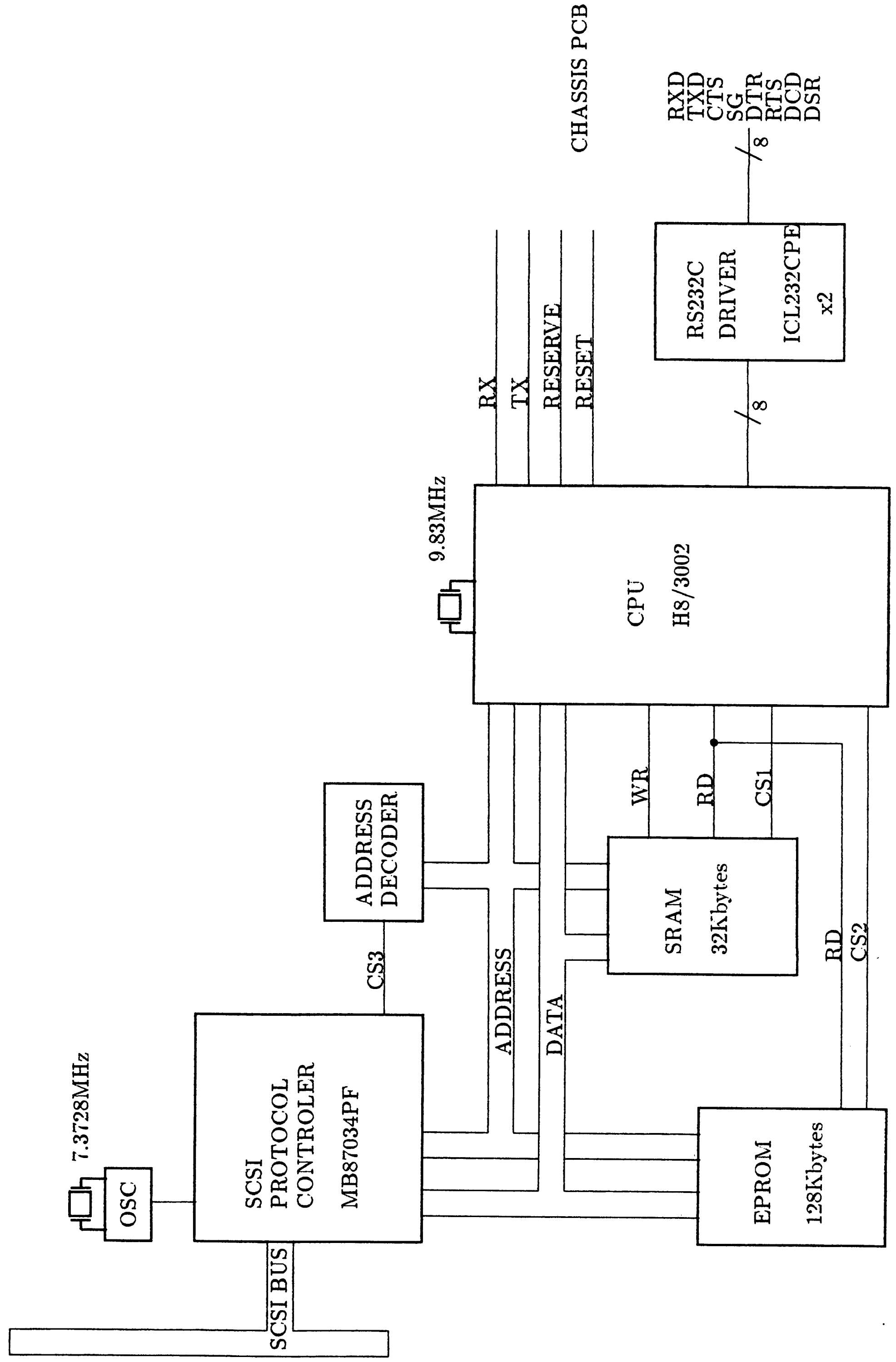


SECTION 3
DIAGRAM AND CIRCUIT BOARDS

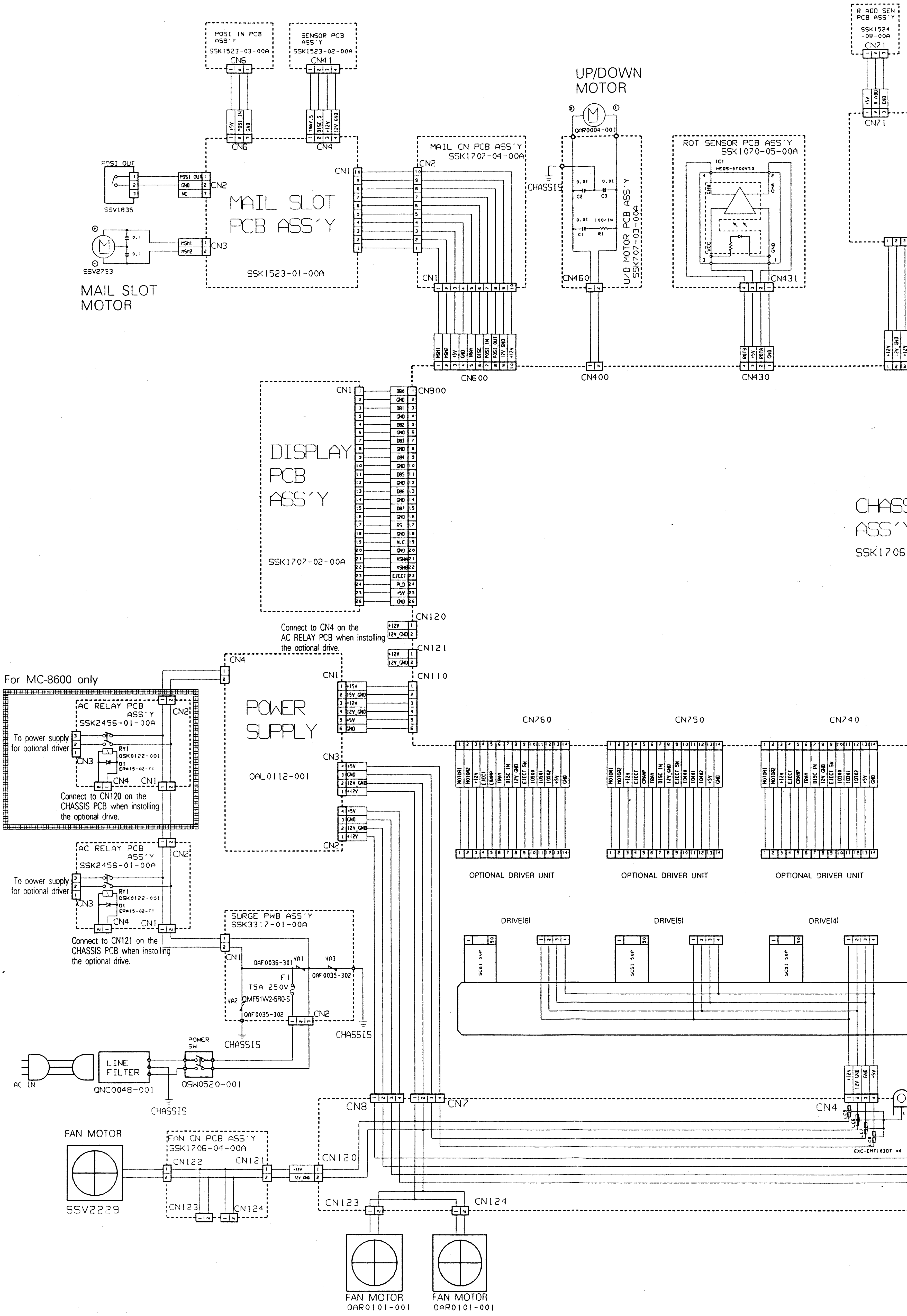
3.1 CHASSIS BLOCK DIAGRAM

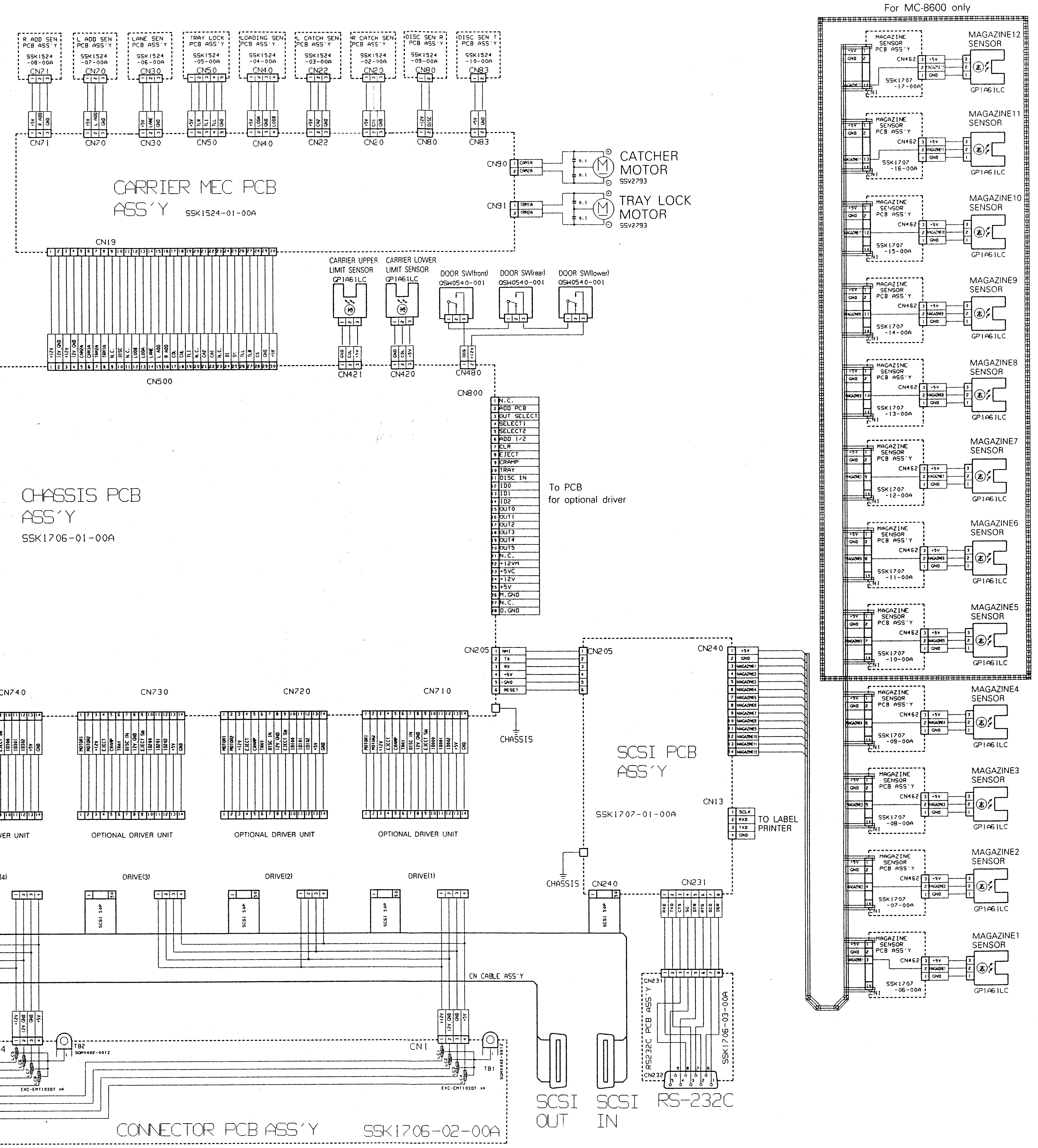

CPU
MB90T678
16.000MHz
EEPROM
RESET
POWER RELAY
COUNTER DRIVER
MECHA COUNTER
UPDOWN MOTOR CNT.
MOTOR DRIVER
MP4708
UP/DOWN
M
UP/DOWN SENSOR
ROTA, ROTB, CDL, CUL
MAIL SLOT SENSOR
TRAY, DISC, POSI IN, POSI OUT
MOTOR DRIVER
TA7279AP
MAIL SLOT
TRAY LOCK
MOTOR DRIVER
SLA4391
CATCHER
CATCHER MOTOR CNT.
CARRIER SENSOR
DOOR SW
MAGAZINE SENSORx12
reset
PRLY
RSTX
NMI
STBY
P-RUN
MCNT
UD
PWM
IPWM
RESERVE
RX
TX
SW1, SW2
WRLX
RDX
ALE
A16
ADDRESS LATCH
AC373
x2
EPROM
32Kbytes
x2
LCD ENABLE
LCD & PANNEL
RS
E
SCSI PCB
CS
ADDRESS DECODER
D7-0
D15-0
D15-8
A15-0/D15-0
D-LATCH
AC573
LED DRIVER
IO EXPANDER
M66500SP
LED & MODE SW PCB
DRIVE 1-6 DISC IN
ID301-ID502
DRIVE1
DRIVE2
DRIVE3
DRIVE4
DRIVE5
DRIVE6
DRIVE 3-6 EJECT SW
DRIVE 1-6 CRAMP, EJECT, TRAY
ID000-ID300
DRIVE 1-2 EJECT OUT
2
3
4
6
8
10
13

3.2 SCSI BLOCK DIAGRAM

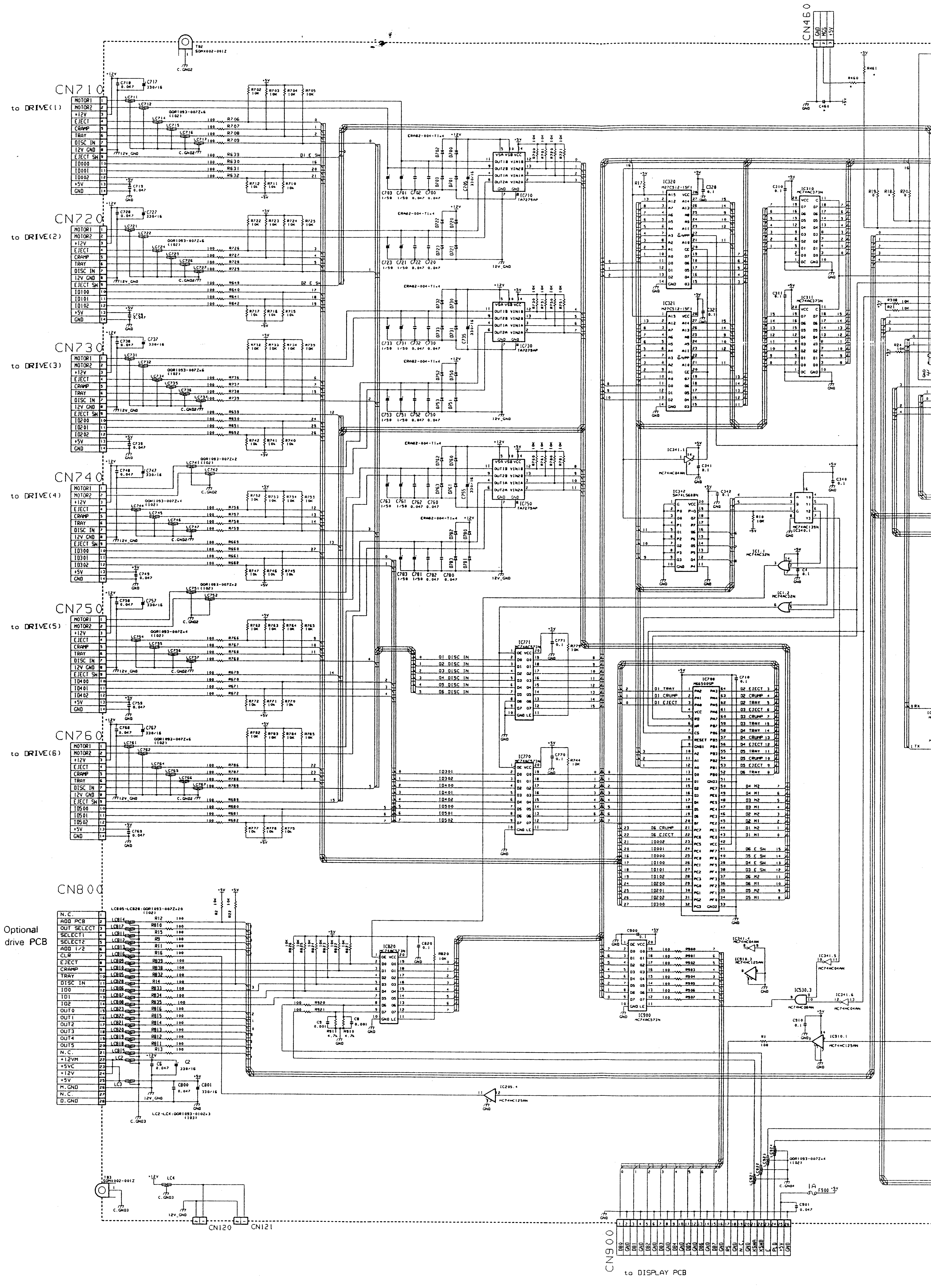

CHASSIS PCB
RXD
TXD
CTS
SG
DTR
RTS
DCD
DSR
8
RS232C DRIVER
ICL232CPE
x2
8
RX
TX
RESERVE
RESET
9.83MHz
CPU
H8/3002
WR
RD
CS1
ADDRESS DECODER
SRAM
32Kbytes
RD
CS2
CS3
ADDRESS
DATA
7.3728MHz
OSC
SCSI PROTOCOL CONTROLER
MB87034PF
EPROM
128Kbytes
SCSI BUS

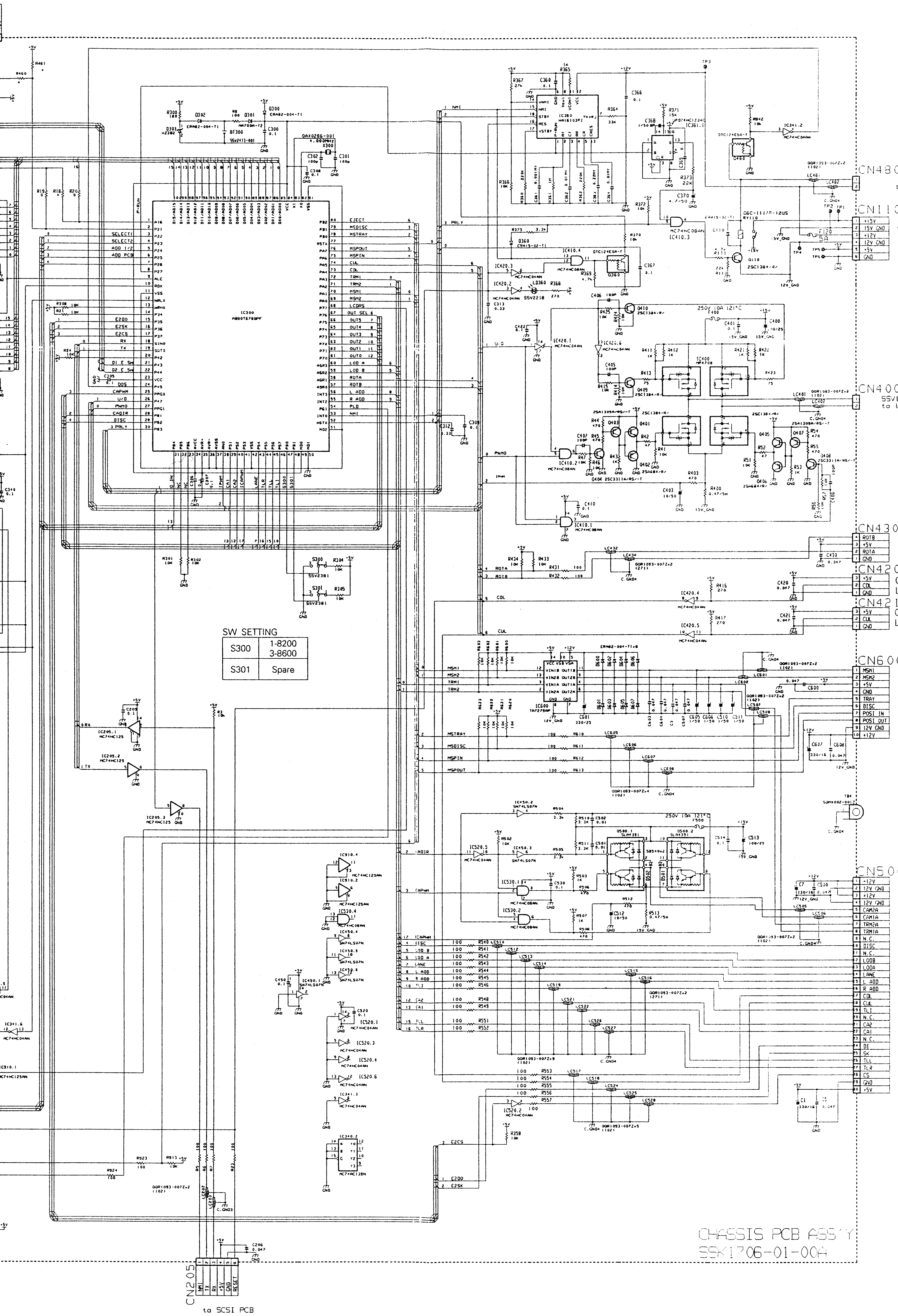
3.3 OVERALL WIRING DIAGRAM


POSI IN PCB ASS'Y
SSK1523-03-00A
CN6
SENSOR PCB ASS'Y
SSK1523-02-00A
CN41
R ADD SEN PCB ASS'Y
SSK1524-08-00A
CN71
UP/DOWN MOTOR
QAR0004-001
CN4
MAIL CN PCB ASS'Y
SSK1707-04-00A
CN2
CN1
CHASSIS
U/D MOTOR PCB ASS'Y
SSK707-03-00A
CN460
ROT SENSOR PCB ASS'Y
SSK1070-05-00A
CN431
POSI OUT
SSV1835
CN2
MAIL SLOT PCB ASS'Y
CN3
SSV2793
SSK1523-01-00A
MAIL SLOT MOTOR
CN600
CN400
CN430
DISPLAY PCB ASS'Y
SSK1707-02-00A
CN900
CHASS ASS'Y
SSK1706
CN120
CN121
CN110
Connect to CN4 on the AC RELAY PCB when installing the optional drive.
For MC-8600 only
AC RELAY PCB ASS'Y
SSK2456-01-00A
To power supply for optional driver
RY1
QSK0122-001
D1
CN3
CN4
CN1
Connect to CN120 on the CHASSIS PCB when installing the optional drive.
POWER SUPPLY
QAL0112-001
CN2
AC RELAY PCB ASS'Y
SSK2456-01-00A
To power supply for optional driver
Connect to CN121 on the CHASSIS PCB when installing the optional drive.
SURGE PWB ASS'Y
SSK3317-01-00A
F1
T5A 250V
QMF51W2-5R0-S
QAF0035-301
QAF0035-302
VA1
VA2
VA3
CHASSIS
POWER SW
LINE FILTER
QNC0048-001
QSW0520-001
AC IN
CHASSIS
CN760
CN750
CN740
OPTIONAL DRIVER UNIT
OPTIONAL DRIVER UNIT
OPTIONAL DRIVER UNIT
DRIVE(6)
DRIVE(5)
DRIVE(4)
SCSI 50P
CN8
CN7
CN4
FAN MOTOR
SSV2229
FAN CN PCB ASS'Y
SSK1706-04-00A
CN122
CN121
CN123
CN124
CN120
CN123
CN124
FAN MOTOR
QAR0101-001
FAN MOTOR
QAR0101-001


For MC-8600 only
R ADD SEN PCB ASS'Y SSK1524-08-00A CN71
L ADD SEN PCB ASS'Y SSK1524-07-00A CN70
LANE SEN PCB ASS'Y SSK1524-06-00A CN30
TRAY LOCK PCB ASS'Y SSK1524-05-00A CN50
LOADING SEN PCB ASS'Y SSK1524-04-00A CN40
L CATCH SEN PCB ASS'Y SSK1524-03-00A CN22
R CATCH SEN PCB ASS'Y SSK1524-02-00A CN20
DISC SEN R PCB ASS'Y SSK1524-09-00A CN80
DISC SEN T PCB ASS'Y SSK1524-10-00A CN83
CARRIER MEC PCB ASS'Y SSK1524-01-00A
CN90 CAM1A CAM2A
CATCHER MOTOR SSV2793
CN91 TRM1A TRM2A
TRAY LOCK MOTOR SSV2793
CN19
CARRIER UPPER LIMIT SENSOR GP1A61LC
CARRIER LOWER LIMIT SENSOR GP1A61LC
DOOR SW(front) OSW0540-001
DOOR SW(rear) OSW0540-001
DOOR SW(lower) OSW0540-001
CN421 CN420 CN480
CN500
CN800
1 N.C.
2 ADD PCB
3 OUT SELECT
4 SELECT1
5 SELECT2
6 ADD 1/2
7 CLR
8 EJECT
9 CRAMP
10 TRAY
11 DISC IN
12 ID0
13 ID1
14 ID2
15 OUT0
16 OUT1
17 OUT2
18 OUT3
19 OUT4
20 OUT5
21 N.C.
22 +12VM
23 +5VC
24 +12V
25 +5V
26 M.GND
27 N.C.
28 D.GND
To PCB for optional driver
CHASSIS PCB ASS'Y SSK1706-01-00A
CN205
1 NMI
2 TX
3 RX
4 +5V
5 GND
6 RESET
CHASSIS
CN240
1 +5V
2 GND
3 MAGAZINE1
4 MAGAZINE2
5 MAGAZINE3
6 MAGAZINE4
7 MAGAZINE5
8 MAGAZINE6
9 MAGAZINE7
10 MAGAZINE8
11 MAGAZINE9
12 MAGAZINE10
13 MAGAZINE11
14 MAGAZINE12
SCSI PCB ASS'Y SSK1707-01-00A
CN13
1 SCLK
2 RXD
3 TXD
4 GND
TO LABEL PRINTER
CN740 CN730 CN720 CN710
VER UNIT
OPTIONAL DRIVER UNIT
OPTIONAL DRIVER UNIT
OPTIONAL DRIVER UNIT
(4) DRIVE(3) DRIVE(2) DRIVE(1)
SCSI 50P
CN240
CN231
RXD TXD CTS SG RTS DTR DCD DSR
CN CABLE ASS'Y
TB2 SQMK002-001Z
TB1 SQMK002-001Z
CN1
EXC-EMT103DT x4
RS232C PCB ASS'Y SSK1706-03-00A
CN232
SCSI OUT
SCSI IN
RS-232C
CONNECTOR PCB ASS'Y SSK1706-02-00A
MAGAZINE SENSOR PCB ASS'Y CN462 CN1 SSK1707-17-00A MAGAZINE12 SENSOR GP1A61LC
MAGAZINE SENSOR PCB ASS'Y CN462 CN1 SSK1707-16-00A MAGAZINE11 SENSOR GP1A61LC
MAGAZINE SENSOR PCB ASS'Y CN462 CN1 SSK1707-15-00A MAGAZINE10 SENSOR GP1A61LC
MAGAZINE SENSOR PCB ASS'Y CN462 CN1 SSK1707-14-00A MAGAZINE9 SENSOR GP1A61LC
MAGAZINE SENSOR PCB ASS'Y CN462 CN1 SSK1707-13-00A MAGAZINE8 SENSOR GP1A61LC
MAGAZINE SENSOR PCB ASS'Y CN462 CN1 SSK1707-12-00A MAGAZINE7 SENSOR GP1A61LC
MAGAZINE SENSOR PCB ASS'Y CN462 CN1 SSK1707-11-00A MAGAZINE6 SENSOR GP1A61LC
MAGAZINE SENSOR PCB ASS'Y CN462 CN1 SSK1707-10-00A MAGAZINE5 SENSOR GP1A61LC
MAGAZINE SENSOR PCB ASS'Y CN462 CN1 SSK1707-09-00A MAGAZINE4 SENSOR GP1A61LC
MAGAZINE SENSOR PCB ASS'Y CN462 CN1 SSK1707-08-00A MAGAZINE3 SENSOR GP1A61LC
MAGAZINE SENSOR PCB ASS'Y CN462 CN1 SSK1707-07-00A MAGAZINE2 SENSOR GP1A61LC
MAGAZINE SENSOR PCB ASS'Y CN462 CN1 SSK1707-06-00A MAGAZINE1 SENSOR GP1A61LC

3.4 CHASSIS SCHEMATIC DIAGRAM

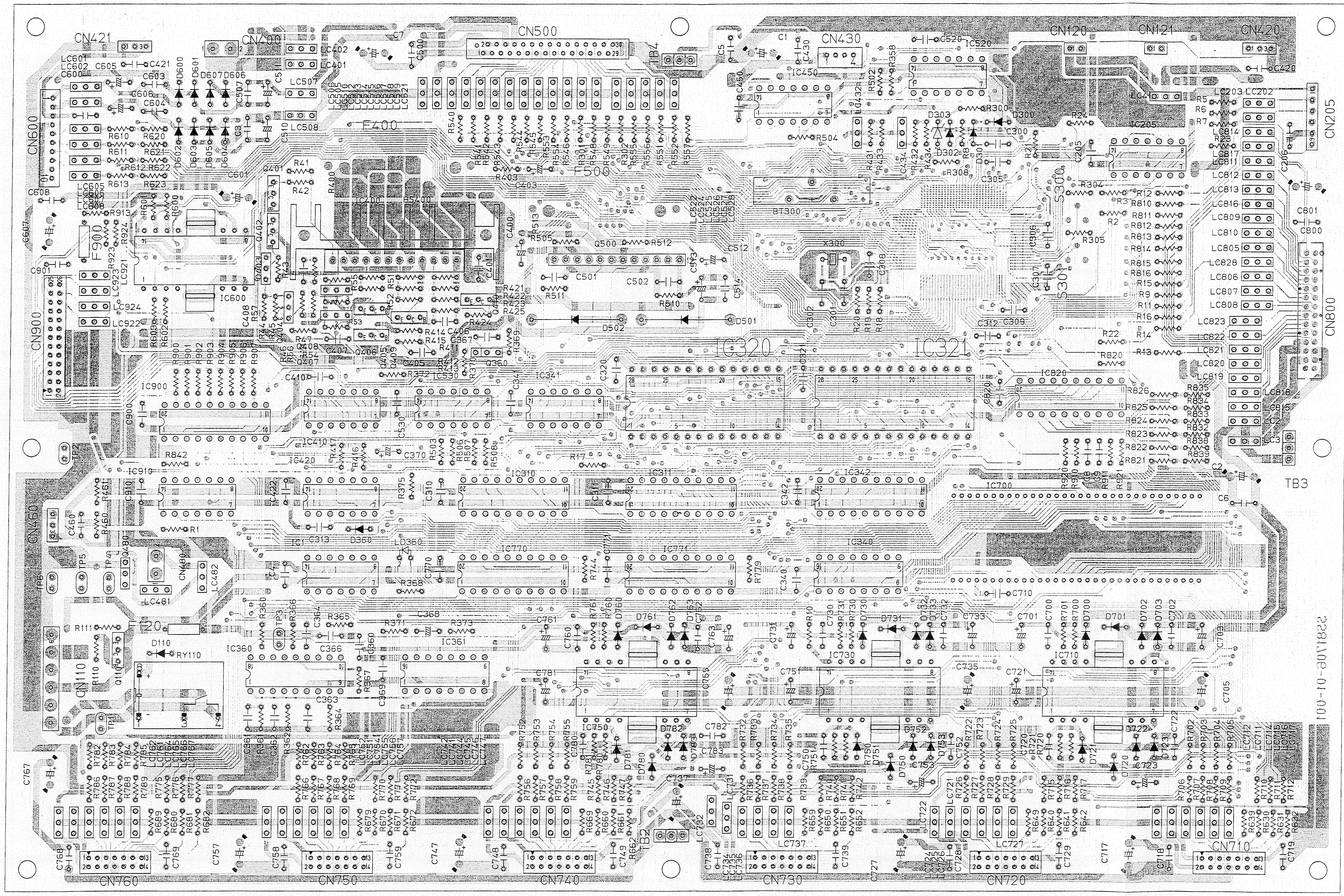

CN710
to DRIVE(1)
CN720
to DRIVE(2)
CN730
to DRIVE(3)
CN740
to DRIVE(4)
CN750
to DRIVE(5)
CN760
to DRIVE(6)
MOTOR1
MOTOR2
+12V
EJECT
CRAMP
TRAY
DISC IN
12V GND
EJECT SW
+5V
GND
CN800
Optional drive PCB
N.C.
ADD PCB
OUT SELECT
SELECT1
SELECT2
ADD 1/2
CLR
EJECT
CRAMP
TRAY
DISC IN
ID0
ID1
ID2
OUT0
OUT1
OUT2
OUT3
OUT4
OUT5
N.C.
+12VM
+5VC
+12V
+5V
M.GND
N.C.
D.GND
IC710
IC730
IC750
IC320
IC321
IC310
IC311
IC342
IC771
IC770
IC700
IC820
IC900
CN460
CN120
CN121
CN900
to DISPLAY PCB
TB2
TB3


IC300
M50747-8BPF
IC360
HA16103FJ
IC600
TA7279P
IC400
MP4708
CN480
to DOOR SWITCH
CN110
+15V
15V GND
+12V
12V GND
+5V
GND
to POWER SUPPLY
250V 10A 121°C
CN400
SSV1790-S02
to UP/DOWN MOTOR PCB
CN430
ROTB
+5V
ROTA
GND
to ROT SENSOR PCB
CN420
+5V
CDL
GND
CARRIER LOWER
LIMIT SENSOR
CN421
+5V
CUL
GND
CARRIER UPPER
LIMIT SENSOR
CN600
MSH1
MSH2
+5V
GND
TRAY
DISC
POSI IN
POSI OUT
12V GND
+12V
to MAIL CN PCB
CN500
+12V
12V GND
+12V
12V GND
CAM2A
CAM1A
TRM2A
TRM1A
N.C.
DISC
N.C.
LODB
LODA
LANE
L ADD
R ADD
CDL
CUL
TLI
N.C.
CA2
CA1
N.C.
DI
SK
TLL
TLR
CS
GND
+5V
to CARRIER MEC PCB
CN205
NMI
TX
RX
+5V
GND
RESET
to SCSI PCB
CHASSIS PCB ASS'Y
SSK1706-01-00A

SW SETTING

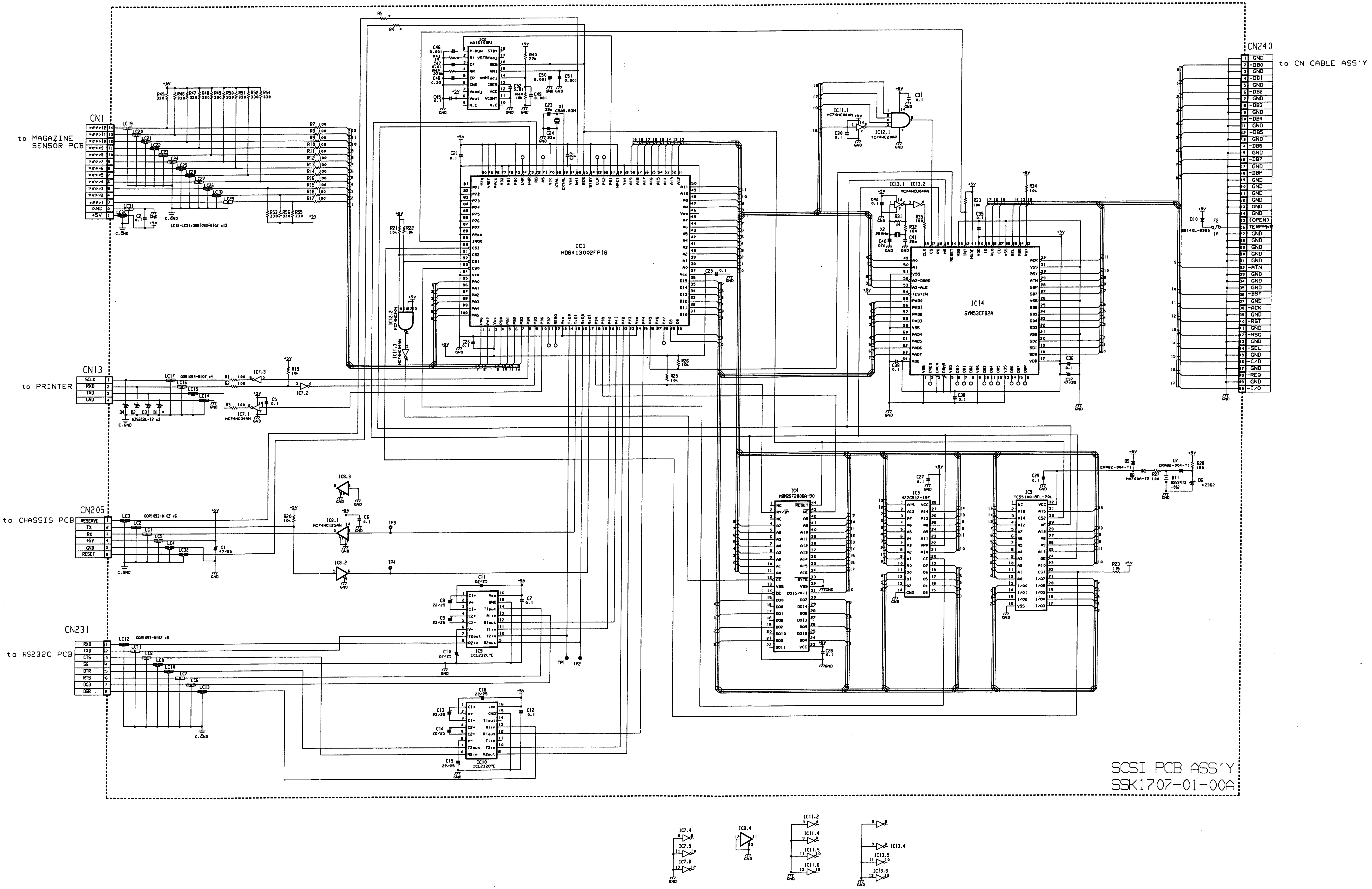
S300	1-8200 3-8600
S301	Spare

3.5 CHASSIS CIRCUIT BOARD


CN421
CN400
CN500
TB4
CN430
IC450
IC520
CN120
CN121
CN420
CN205
CN600
F400
IC205
T500
BT300
X300
S300
S301
F900
IC600
CN900
IC320
IC321
IC820
CN800
IC900
IC410
IC420
IC310
IC311
IC342
IC700
TB3
IC910
CN460
IC770
IC771
IC340
CN480
F120
IC360
IC361
RY110
CN110
IC730
IC710
IC750
CN760
CN750
CN740
TB2
CN730
CN720
CN710

MC-8200U/MC-8600U

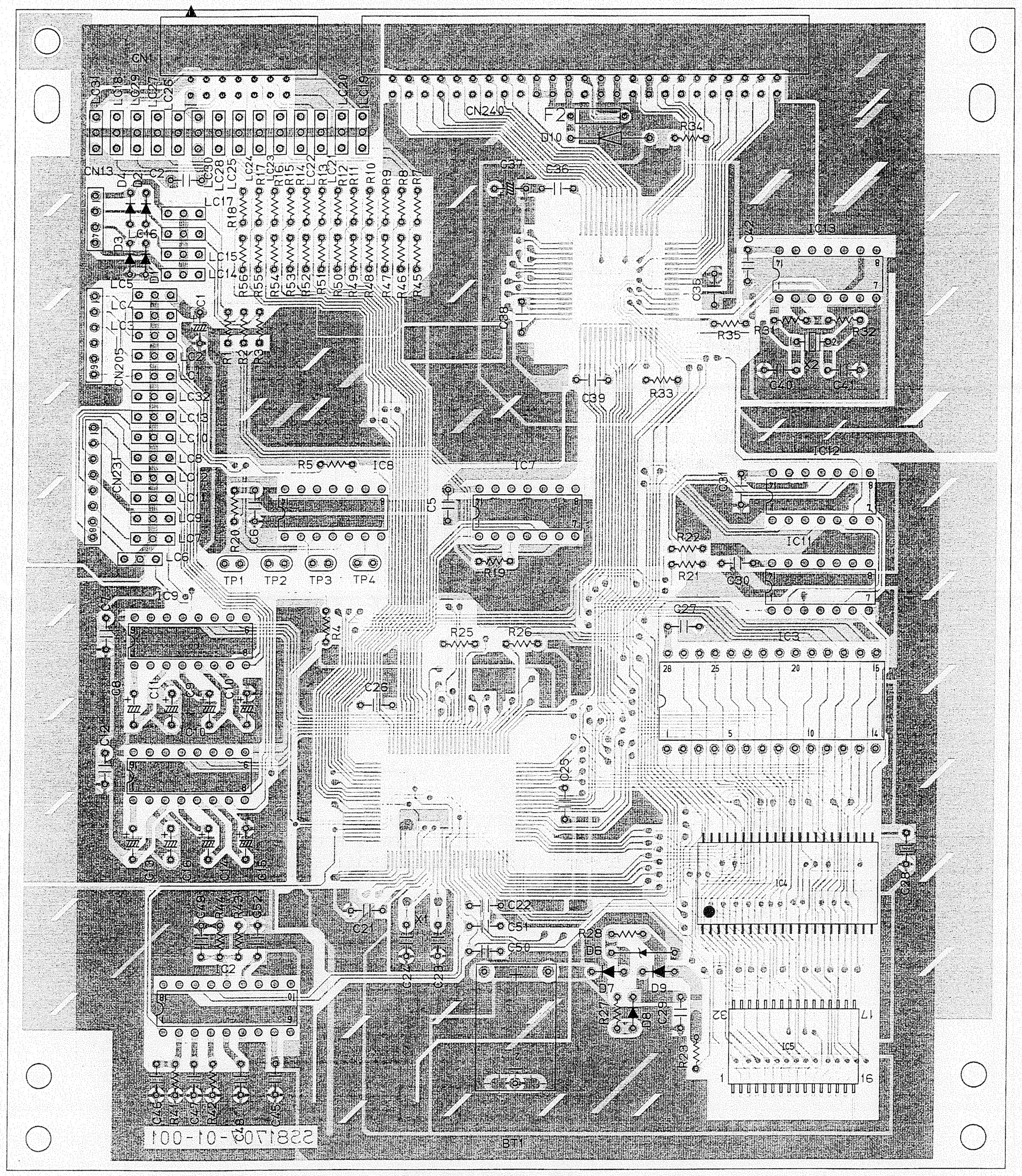
3.6 SCSI SCHEMATIC DIAGRAM


CN1
to MAGAZINE SENSOR PCB
CN13
to PRINTER
CN205
to CHASSIS PCB
CN231
to RS232C PCB
CN240
to CN CABLE ASS'Y
IC1
HD6413002FP16
IC2
HA16103PJ
IC14
SYM53CF92A
IC4
MBM29F200BA-90
IC3
M27C512-15F
IC5
TC551001BFL-70L
IC9
ICL232CPE
IC10
ICL232CPE
IC11.1
MC74HC04AN
IC12.1
TC74HC20AP
IC13.1
IC13.2
MC74HC04AN
IC7.1
IC7.2
IC7.3
MC74HC04AN
IC8.1
MC74HC125AN
IC8.2
IC8.3
X1
CSA9.83M
X2
25MHz
TP1
TP2
TP3
TP4
SCSI PCB ASS'Y
SSK1707-01-00A

3-6

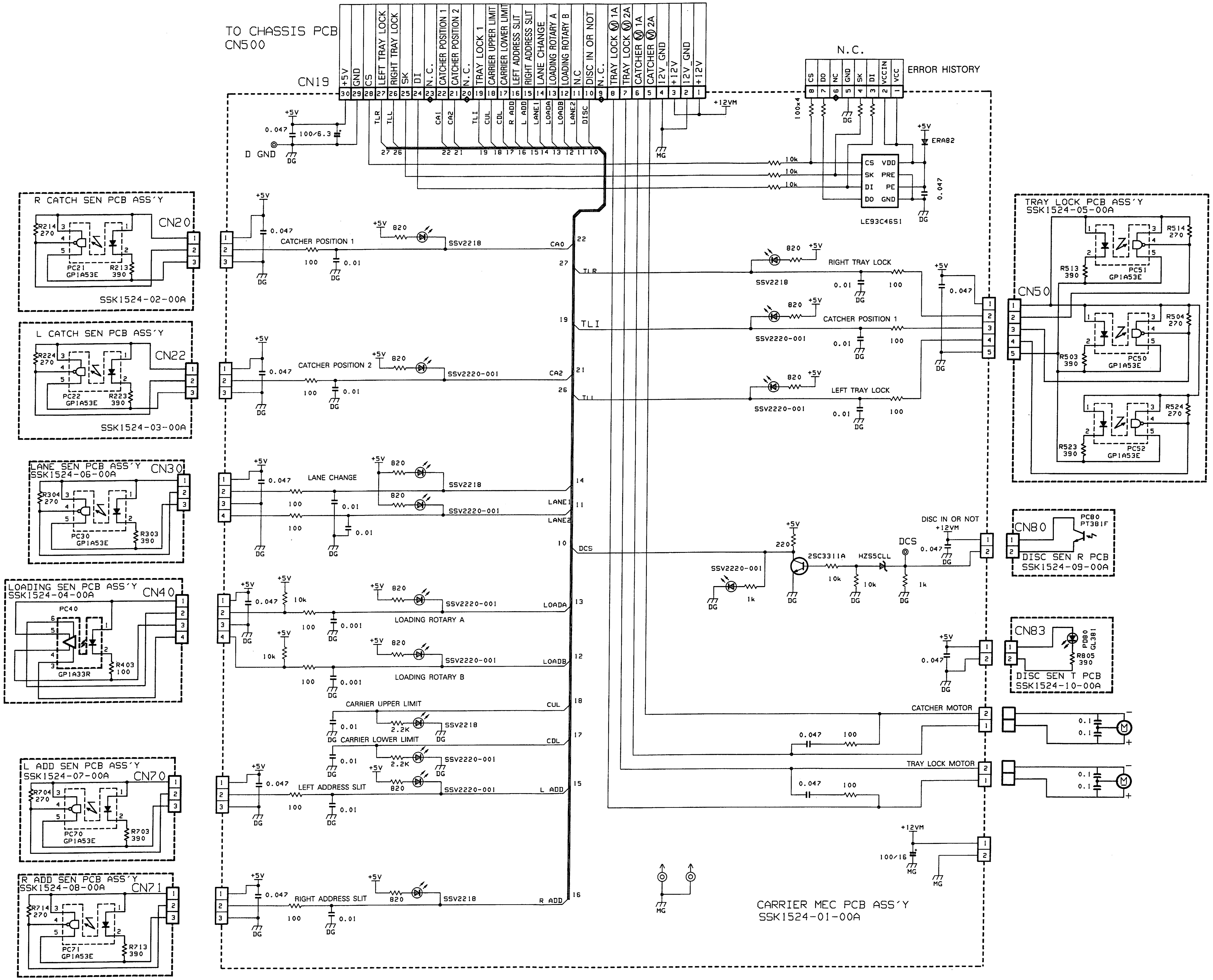
MC-8200U/MC-8600U

3.7 SCSI CIRCUIT BOARD


CN1
CN240
F2
D10
R34
C37
C36
CN13
CN205
CN231
IC13
C35
R35
C40
C41
C39
R33
R5
IC8
IC7
IC12
C5
C31
IC11
R22
R21
R19
C30
TP1
TP2
TP3
TP4
IC9
R25
R26
C27
IC3
C26
C29
IC4
C22
C51
C50
C2
R28
D6
D7
D9
IC2
IC5
BT1
SS8170A-01-001

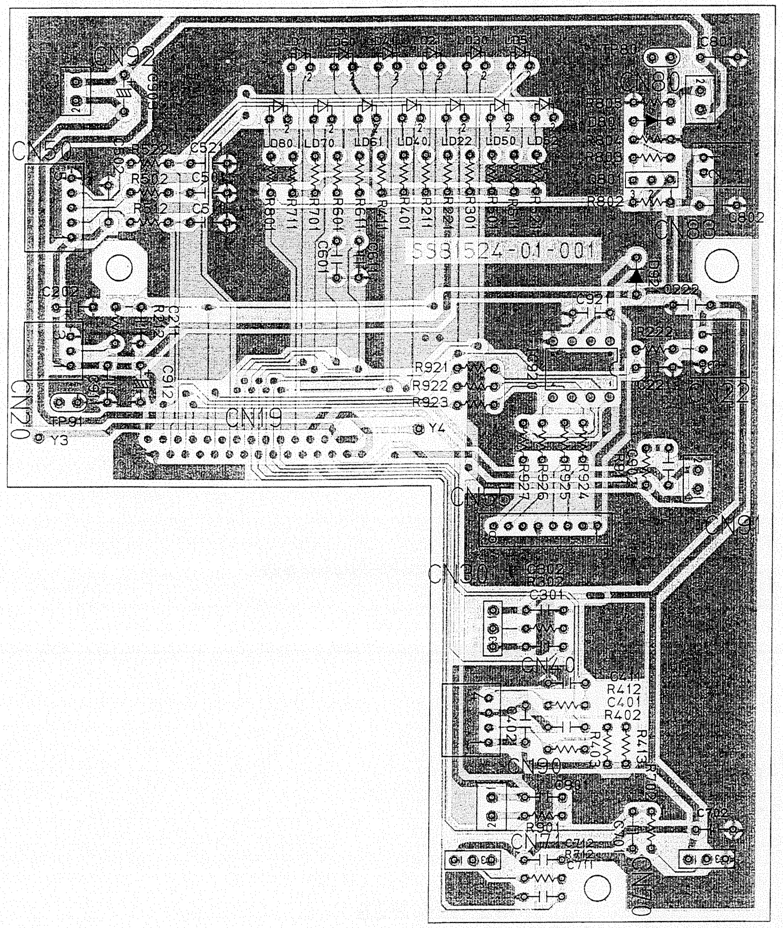
3-7

3.8 CARRIER SCHEMATIC DIAGRAM

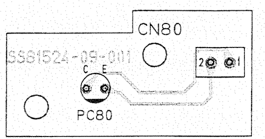

TO CHASSIS PCB
CN500
CN19
+5V
GND
CS
LEFT TRAY LOCK
RIGHT TRAY LOCK
SK
DI
N.C.
CATCHER POSITION 1
CATCHER POSITION 2
N.C.
TRAY LOCK 1
CARRIER UPPER LIMIT
CARRIER LOWER LIMIT
LEFT ADDRESS SLIT
RIGHT ADDRESS SLIT
LANE CHANGE
LOADING ROTARY A
LOADING ROTARY B
N.C
DISC IN OR NOT
N.C.
TRAY LOCK Ⓜ 1A
TRAY LOCK Ⓜ 2A
CATCHER Ⓜ 1A
CATCHER Ⓜ 2A
12V_GND
+12V
12V_GND
+12V
N.C.
ERROR HISTORY
CS DO NC GND SK DI VCCIN VCC
100x4
+12VM
LE93C46S1
CS VDD SK PRE DI PE DO GND
ERA82
0.047
10k
D GND
0.047
100/6.3
DG
MG
R CATCH SEN PCB ASS'Y
CN20
R214 270
PC21 GP1A53E
R213 390
SSK1524-02-00A
L CATCH SEN PCB ASS'Y
CN22
R224 270
PC22 GP1A53E
R223 390
SSK1524-03-00A
LANE SEN PCB ASS'Y
SSK1524-06-00A
CN30
R304 270
PC30 GP1A53E
R303 390
LOADING SEN PCB ASS'Y
SSK1524-04-00A
CN40
PC40
GP1A33R
R403 100
L ADD SEN PCB ASS'Y
SSK1524-07-00A
CN70
R704 270
PC70 GP1A53E
R703 390
R ADD SEN PCB ASS'Y
SSK1524-08-00A
CN71
R714 270
PC71 GP1A53E
R713 390
CATCHER POSITION 1
CATCHER POSITION 2
LANE CHANGE
LOADING ROTARY A
LOADING ROTARY B
CARRIER UPPER LIMIT
CARRIER LOWER LIMIT
LEFT ADDRESS SLIT
RIGHT ADDRESS SLIT
820
100
0.01
0.001
2.2K
SSV2218
SSV2220-001
CA0
CA2
TLR
TLI
TLL
LANE1
LANE2
LOADA
LOADB
CUL
CDL
L ADD
R ADD
DCS
RIGHT TRAY LOCK
CATCHER POSITION 1
LEFT TRAY LOCK
TRAY LOCK PCB ASS'Y
SSK1524-05-00A
CN50
R514 270
R513 390
PC51 GP1A53E
R504 270
R503 390
PC50 GP1A53E
R524 270
R523 390
PC52 GP1A53E
DISC IN OR NOT
+12VM
DCS
2SC3311A
HZS5CLL
220
1k
CN80
PCB0 PT381F
DISC SEN R PCB
SSK1524-09-00A
CN83
PD80 GL381
R805 390
DISC SEN T PCB
SSK1524-10-00A
CATCHER MOTOR
TRAY LOCK MOTOR
0.1
100/16
CARRIER MEC PCB ASS'Y
SSK1524-01-00A

3.9 CARRIER CIRCUIT BOARD

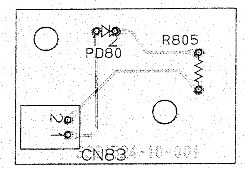
■CARRIER BOARD


SS81524-01-001
LD80
LD70
LD61
LD40
LD22
LD50
CN20
CN19
Y3
Y4
R921
R922
R923
C301
R412
C401
R402
R413

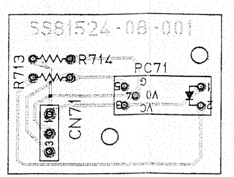
■DISC SEN R BOARD


CN80
SS81524-09-001
PC80

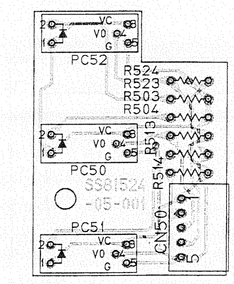
■DISC SEN L BOARD


PD80
R805
CN83
-10-001

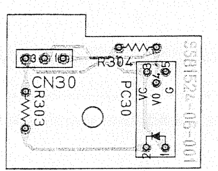
■R ADD BOARD


SS81524-08-001
R713
R714
PC71
CN71

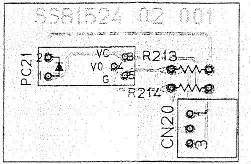
■TRAY LOCK BOARD


PC52
R524
R523
R503
R504
PC50
R513
SS81524
-05-001
R514
CN50
PC51

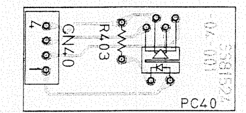
■LANE SEN BOARD


R304
CN30
R303
PC30
SS81524-06-001

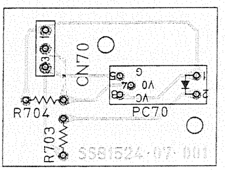
■R CATCH BOARD


SS81524 02 001
PC21
R213
R214
CN20

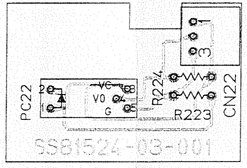
■LOADING SEN BOARD


CN40
R403
SS81524-04-001
PC40

■L ADD BOARD

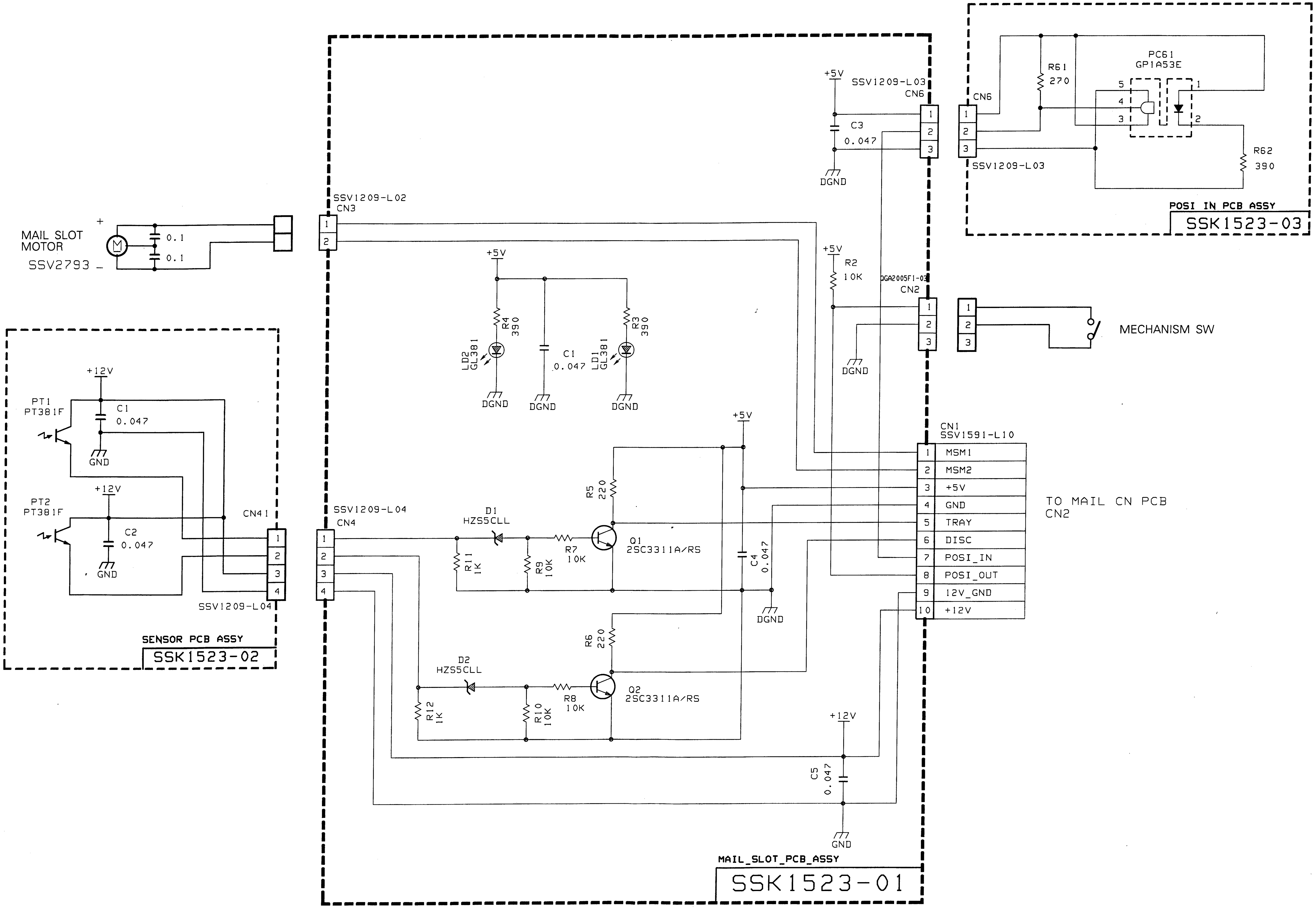

CN70
R704
PC70
R703
SS81524-07-001

■L CATCH BOARD


PC22
R224
R223
CN22
SS81524-03-001

MC-8200U/MC-8600U

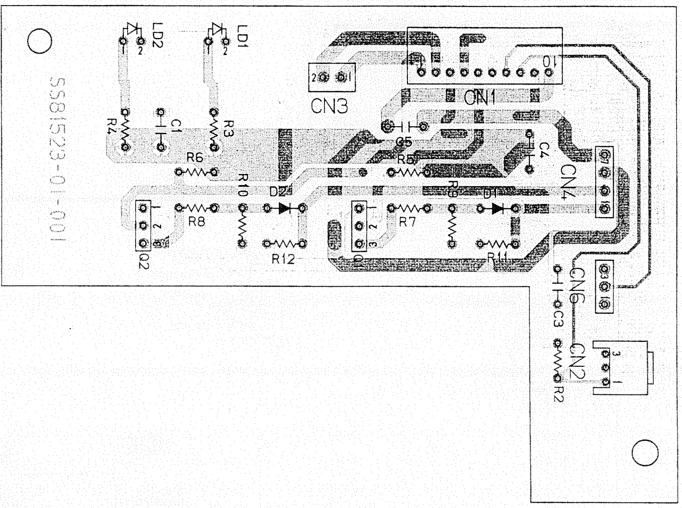
3.10 MAIL SLOT SCHEMATIC DIAGRAM


MAIL SLOT MOTOR
SSV2793
0.1
0.1
SSV1209-L02
CN3
SENSOR PCB ASSY
SSK1523-02
PT1
PT381F
PT2
PT381F
+12V
C1
0.047
C2
0.047
GND
CN41
SSV1209-L04
CN4
+5V
R4 390
R3 390
LD2 GL381
LD1 GL381
C1 0.047
DGND
D1 HZS5CLL
D2 HZS5CLL
R11 1K
R12 1K
R9 10K
R10 10K
R7 10K
R8 10K
R5 220
R6 220
Q1 2SC3311A/RS
Q2 2SC3311A/RS
C4 0.047
C5 0.047
SSV1209-L03
CN6
C3 0.047
R2 10K
DGA2005F1-03
CN2
MECHANISM SW
CN1
SSV1591-L10
1 MSM1
2 MSM2
3 +5V
4 GND
5 TRAY
6 DISC
7 POSI_IN
8 POSI_OUT
9 12V_GND
10 +12V
TO MAIL CN PCB
CN2
PC61
GP1A53E
R61 270
R62 390
POSI IN PCB ASSY
SSK1523-03
MAIL_SLOT_PCB_ASSY
SSK1523-01

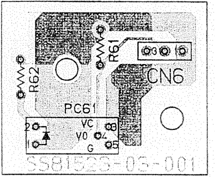
3-10

3.11 MAIL SLOT CIRCUIT BOARD

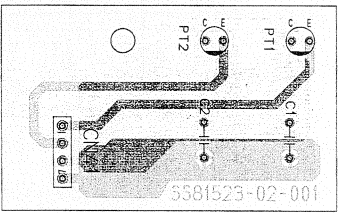
■MAIL SLOT BOARD


LD2
LD1
SS81523-01-001
R4
C1
R3
R6
R10
D2
R8
Q2
R12
CN3
CN1
C5
R5
R9
C4
CN4
D1
R7
Q1
R11
CN6
C3
CN2
R2

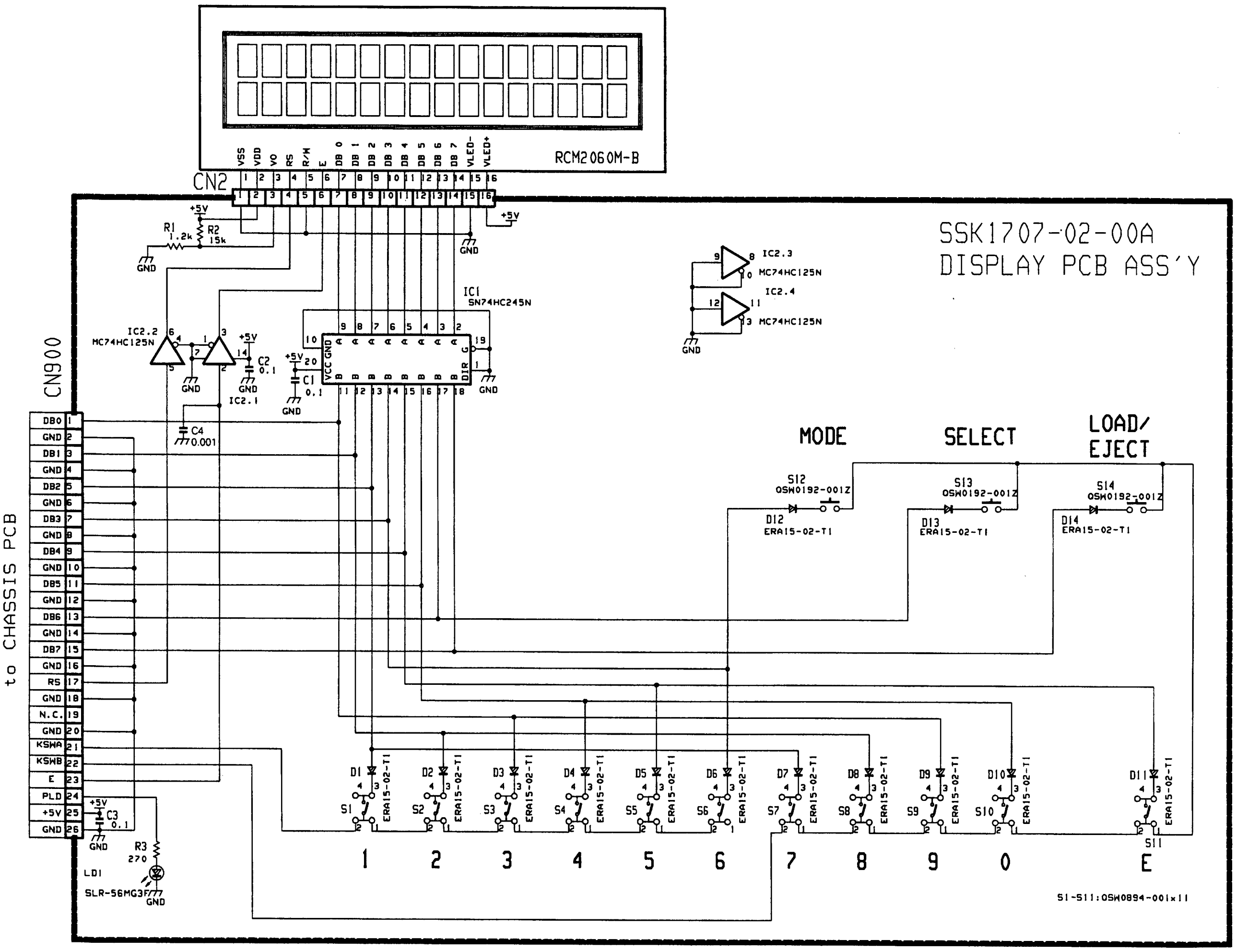
■POSI IN BOARD


R61
CN6
R62
PC61
VC
VO
G
SS81523-03-001

■SENSOR BOARD

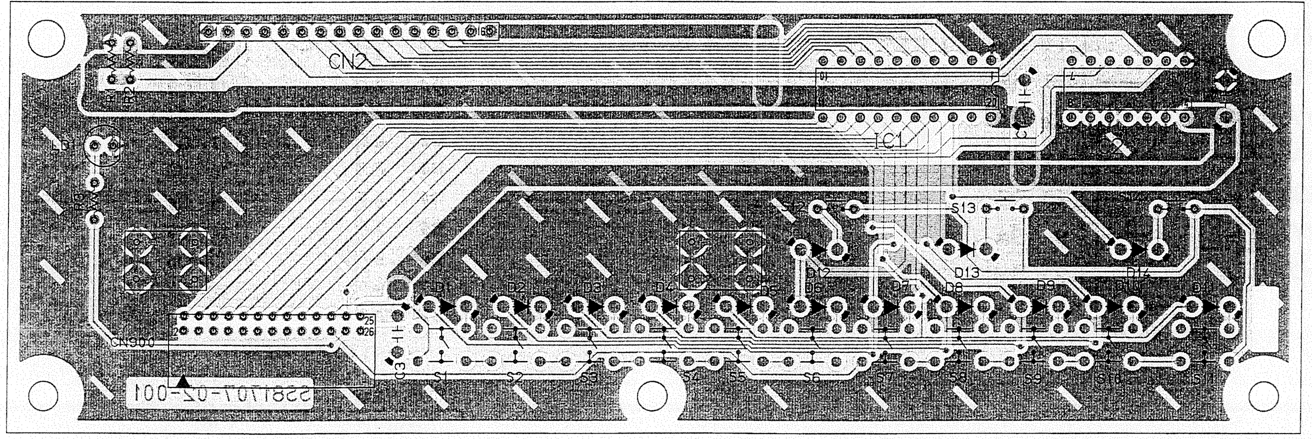

PT2
PT1
C
E
C2
C1
CN4
SS81523-02-001

3.12 DISPLAY SCHEMATIC DIAGRAM

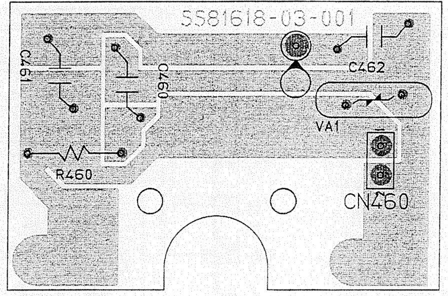

RCM2060M-B
VSS
VDD
VO
RS
R/W
E
DB 0
DB 1
DB 2
DB 3
DB 4
DB 5
DB 6
DB 7
VLED-
VLED+
CN2
+5V
R1 1.2k
R2 15k
GND
SSK1707-02-00A
DISPLAY PCB ASS'Y
IC2.3 MC74HC125N
IC2.4 MC74HC125N
IC1 SN74HC245N
IC2.2 MC74HC125N
IC2.1
C2 0.1
C1 0.1
C4 0.001
VCC
DIR
CN900
to CHASSIS PCB
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
RS
N.C.
KSWA
KSWB
E
PLD
C3 0.1
R3 270
LD1
SLR-56MG3F
MODE
SELECT
LOAD/ EJECT
S12 OSW0192-001Z
S13 OSW0192-001Z
S14 OSW0192-001Z
D12 ERA15-02-T1
D13 ERA15-02-T1
D14 ERA15-02-T1
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
ERA15-02-T1
S1
S2
S3
S4
S5
S6
S7
S8
S9
S10
S11
1
2
3
4
5
6
7
8
9
0
E
S1-S11:OSW0894-001×11

3.13 DISPLAY/ RS232C/ CONNECTOR/ FAN CN/ U/D MOTOR/ MAIL CN/ ROT SENSOR/ MAGAZINE SENSOR CIRCUIT BOARD

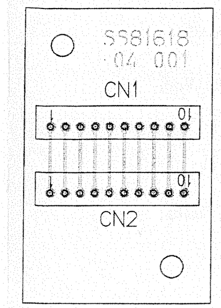
■DISPLAY BOARD


CN2
R1
R2
LD1
R3
IC1
C1
C2
CN900
C3
S1
S2
S3
S4
S5
S6
S7
S8
S9
S10
S11
S12
S13
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
SS81707-02-001

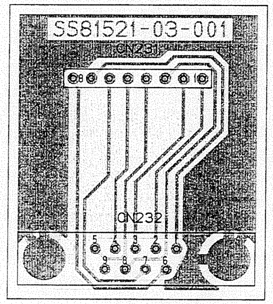
■U/D MOTOR BOARD


SS81618-03-001
C461
C460
C462
VA1
R460
CN460

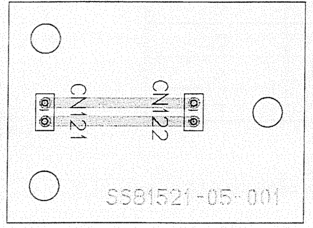
■MAIL CN BOARD


SS81618
-04-001
CN1
CN2
1
10

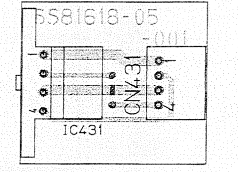
■RS232C BOARD


SS81521-03-001
CN231
CN232

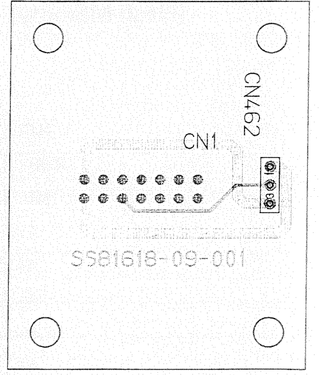
■FAN CN BOARD


CN121
CN122
SS81521-05-001

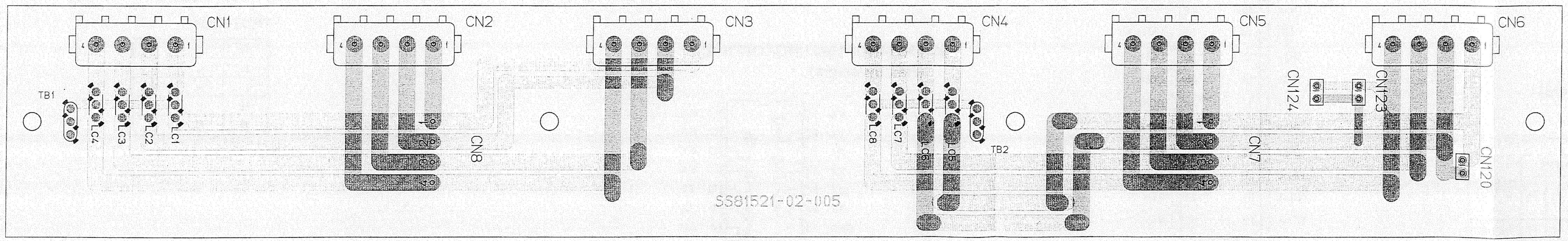
■ROT SENSOR BOARD


SS81618-05
-001
CN431
IC431

■MAGAZINE SENSOR BOARD


CN462
CN1
SS81618-09-001

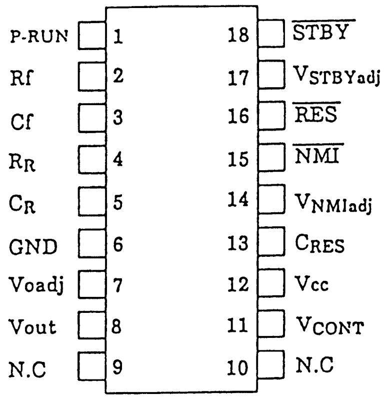
■CONNECTOR BOARD


CN1
CN2
CN3
CN4
CN5
CN6
TB1
LC4
LC3
LC2
LC1
CN8
LC8
LC7
LC6
LC5
TB2
CN7
CN124
CN123
CN120
SS81521-02-005

3.14 BLOCK DIAGRAMS of IC's

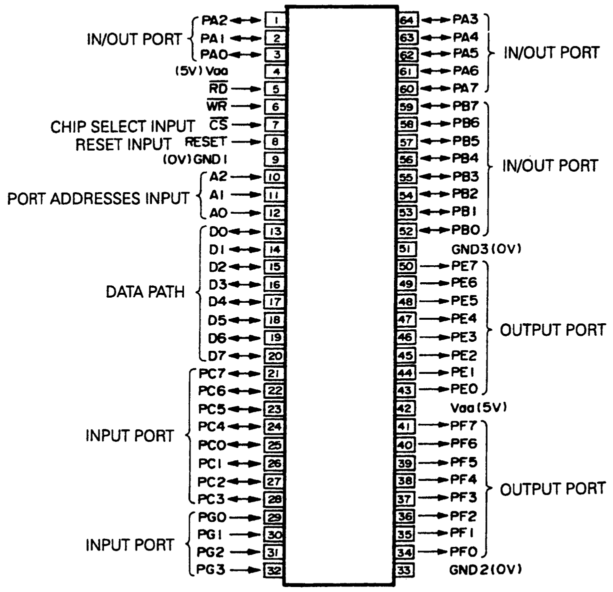
■ HA16103PJ [HITACHI]

(Microcomputer for system power control)


P-RUN 1
Rf 2
Cf 3
RR 4
CR 5
GND 6
Voadj 7
Vout 8
N.C 9
18 STBY
17 VSTBYadj
16 RES
15 NMI
14 VNMIadj
13 CRES
12 Vcc
11 VCONT
10 N.C

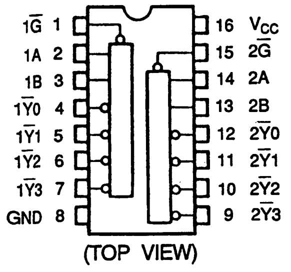
■ M66500SP [MITSUBISHI]

(I/O EXPANDER)


IN/OUT PORT
PA2 1
PA1 2
PA0 3
(5V) Vdd 4
RD 5
WR 6
CHIP SELECT INPUT CS 7
RESET INPUT RESET 8
(0V) GND1 9
PORT ADDRESSES INPUT
A2 10
A1 11
A0 12
DATA PATH
D0 13
D1 14
D2 15
D3 16
D4 17
D5 18
D6 19
D7 20
INPUT PORT
PC7 21
PC6 22
PC5 23
PC4 24
PC0 25
PC1 26
PC2 27
PC3 28
INPUT PORT
PG0 29
PG1 30
PG2 31
PG3 32
64 PA3
63 PA4
62 PA5
61 PA6
60 PA7
IN/OUT PORT
59 PB7
58 PB6
57 PB5
56 PB4
55 PB3
54 PB2
53 PB1
52 PB0
IN/OUT PORT
51 GND3 (0V)
50 PE7
49 PE6
48 PE5
47 PE4
46 PE3
45 PE2
44 PE1
43 PE0
OUTPUT PORT
42 Vdd (5V)
41 PF7
40 PF6
39 PF5
38 PF4
37 PF3
36 PF2
35 PF1
34 PF0
OUTPUT PORT
33 GND2 (0V)

■ MC74AC139N [MOTOROLA]

(Dual 2-Line to 4-Lile Decoders/Demultiplexers)


1G 1
1A 2
1B 3
1Y0 4
1Y1 5
1Y2 6
1Y3 7
GND 8
16 VCC
15 2G
14 2A
13 2B
12 2Y0
11 2Y1
10 2Y2
9 2Y3
(TOP VIEW)

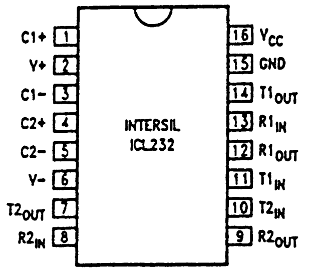
TRUE Table

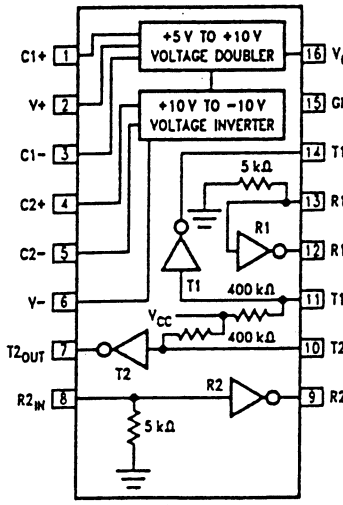
INPUTS			OUTPUTS				SELECTED OUTPUT
ENABLE	SELECT		$\overline{Y0}$	$\overline{Y1}$	$\overline{Y2}$	$\overline{Y3}$	
$\overline{G}$	B	A					
H	X	X	H	H	H	H	NONE
L	L	L	L	H	H	H	$\overline{Y0}$
L	L	H	H	L	H	H	$\overline{Y1}$
L	H	L	H	H	L	H	$\overline{Y2}$
L	H	H	H	H	H	L	$\overline{Y3}$

X : Don't care

■ ICL232CPE [INTERSIL]

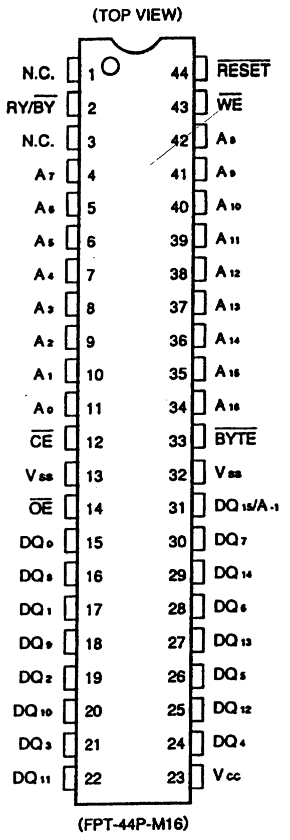
(+5V Powered Dual RS-232 Transmitter/Receiver)


C1+ 1
V+ 2
C1- 3
C2+ 4
C2- 5
V- 6
T2OUT 7
R2IN 8
INTERSIL
ICL232
16 VCC
15 GND
14 T1OUT
13 R1IN
12 R1OUT
11 T1IN
10 T2IN
9 R2OUT


C1+ 1
V+ 2
C1- 3
C2+ 4
C2- 5
V- 6
T2OUT 7
R2IN 8
+5V TO +10V VOLTAGE DOUBLER
+10V TO -10V VOLTAGE INVERTER
5 kΩ
R1
T1
400 kΩ
VCC
400 kΩ
T2
R2
5 kΩ
16 VCC
15 GND
14 T1OUT
13 R1IN
12 R1OUT
11 T1IN
10 T2IN
9 R2OUT

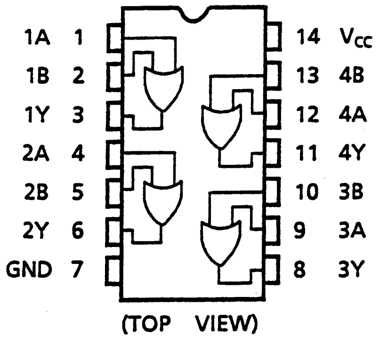
■ MBM29F200BA-90 [FUJITSU]

(Flash Memory)


(TOP VIEW)
N.C. 1
RY/BY 2
N.C. 3
A7 4
A6 5
A5 6
A4 7
A3 8
A2 9
A1 10
A0 11
CE 12
Vss 13
OE 14
DQ0 15
DQ8 16
DQ1 17
DQ9 18
DQ2 19
DQ10 20
DQ3 21
DQ11 22
44 RESET
43 WE
42 A8
41 A9
40 A10
39 A11
38 A12
37 A13
36 A14
35 A15
34 A16
33 BYTE
32 Vss
31 DQ15/A-1
30 DQ7
29 DQ14
28 DQ6
27 DQ13
26 DQ5
25 DQ12
24 DQ4
23 Vcc
(FPT-44P-M16)

■ MC74AC32N [MOTOROLA]

(Quad 2-Input OR Gates)

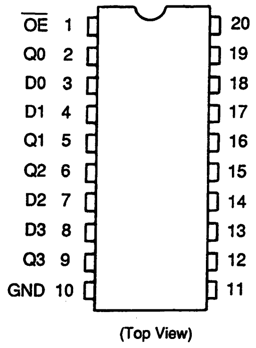

1A 1
1B 2
1Y 3
2A 4
2B 5
2Y 6
GND 7
14 Vcc
13 4B
12 4A
11 4Y
10 3B
9 3A
8 3Y
(TOP VIEW)

TRUE Table

A	B	Y
H	H	H
L	H	H
H	L	H
L	L	L

■ MC74AC373N [MOTOROLA]

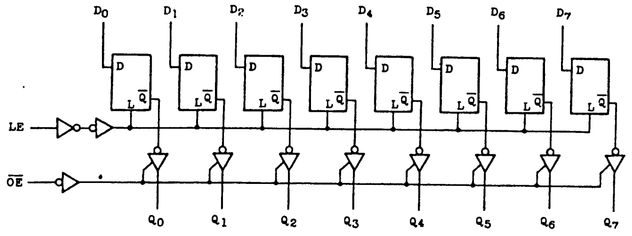
(Octal Transparent Latch with 3-State Output)


OE 1
Q0 2
D0 3
D1 4
Q1 5
Q2 6
D2 7
D3 8
Q3 9
GND 10
20 Vcc
19 Q7
18 D7
17 D6
16 Q6
15 Q5
14 D5
13 D4
12 Q4
11 LE
(Top View)

TRUE Table

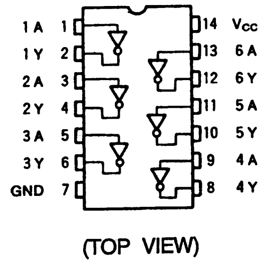
INPUTS			OUTPUTS
$\overline{OE}$	LE	D	
H	X	X	Z
L	L	X	Q_n
L	H	L	L
L	H	H	H

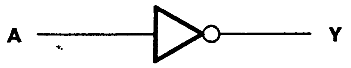
X : Don't Care
Z : Hi impedance
Qn : Q output level before the LE become "L".


D0
D1
D2
D3
D4
D5
D6
D7
D
L
Q
LE
OE
Q0
Q1
Q2
Q3
Q4
Q5
Q6
Q7

■ MC74HC04AN [MOTOROLA]

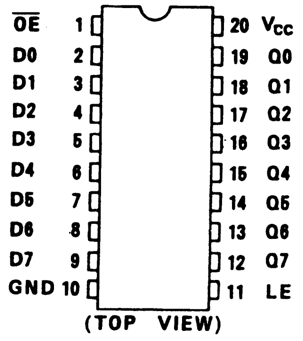
(Hex Inverters)


1A 1
1Y 2
2A 3
2Y 4
3A 5
3Y 6
GND 7
14 Vcc
13 6A
12 6Y
11 5A
10 5Y
9 4A
8 4Y
(TOP VIEW)



■ MC74AC573N [MOTOROLA]

(Octal D-Type Latch With NON-Inverted 3-State Outputs)


OE 1
D0 2
D1 3
D2 4
D3 5
D4 6
D5 7
D6 8
D7 9
GND 10
20 Vcc
19 Q0
18 Q1
17 Q2
16 Q3
15 Q4
14 Q5
13 Q6
12 Q7
11 LE
(TOP VIEW)

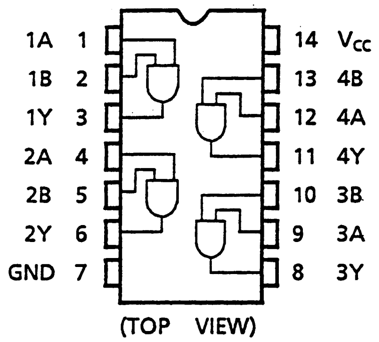
TRUE Table

INPUTS			OUTPUTS
$\overline{OE}$	LE	D	Q
H	X	X	HZ
L	L	X	Q_n
L	H	L	L
L	H	H	H

X : Don't care.
Z : Hi impedance
Qn : Level of Q output before LE becomes "L".

■ MC74HC08AN [MOTOROLA]

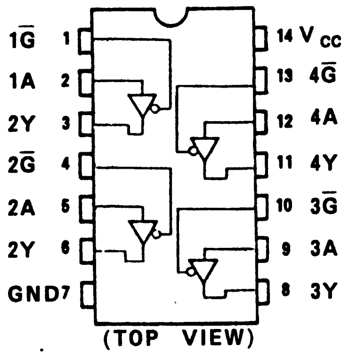
(Quad 2-Input AND Gates)


1A 1
1B 2
1Y 3
2A 4
2B 5
2Y 6
GND 7
14 Vcc
13 4B
12 4A
11 4Y
10 3B
9 3A
8 3Y
(TOP VIEW)

TRUE Table

A	B	Y
L	L	L
L	H	L
H	L	L
H	H	H

■ MC74HC125AN [MOTOROLA]
(Quad Bus Buffer Gates With 3-State Outputs)


1Ḡ 1
1A 2
2Y 3
2Ḡ 4
2A 5
2Y 6
GND 7
14 Vcc
13 4Ḡ
12 4A
11 4Y
10 3Ḡ
9 3A
8 3Y
(TOP VIEW)

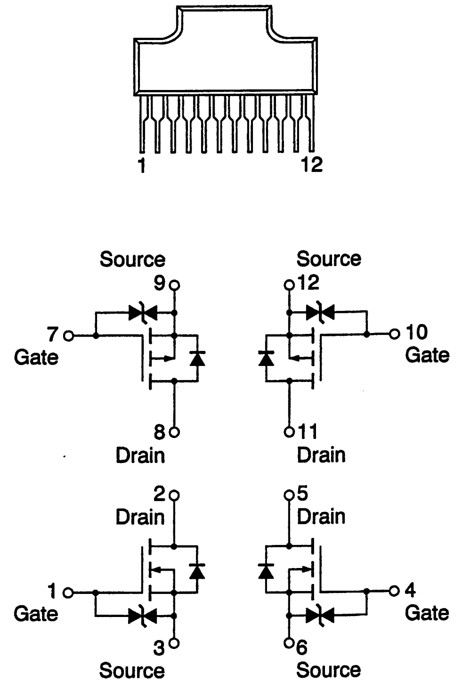
TC74HC125A TRUE Table

INPUTS		OUTPUTS
G	A	Y
H	X	Z
L	L	L
L	H	H

X : Don't Care
Z : High Impedance

■ MC74HCU04AN [MOTOROLA]
(See MC74HC04AN.)

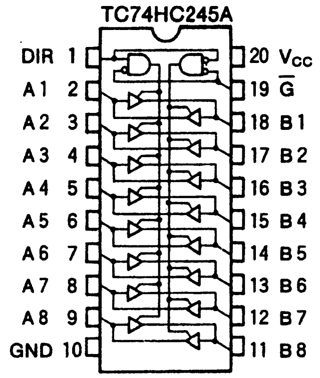
■ MP4708 [TOSHIBA]
(H-Switch Driver)


1
12
Source
9
7
Gate
8
Drain
Source
12
10
Gate
11
Drain
2
Drain
1
Gate
3
Source
5
Drain
4
Gate
6
Source

■ SN74LS125AN [TEXAS]
(See MC74HC125AN.)

■ SN74HC245N [TEXAS]
(Octal Bus Transceivers With NON-Inverted 3-State Outputs)

(TOP VIEW)


TC74HC245A
DIR 1
A1 2
A2 3
A3 4
A4 5
A5 6
A6 7
A7 8
A8 9
GND 10
20 Vcc
19 Ḡ
18 B1
17 B2
16 B3
15 B4
14 B5
13 B6
12 B7
11 B8

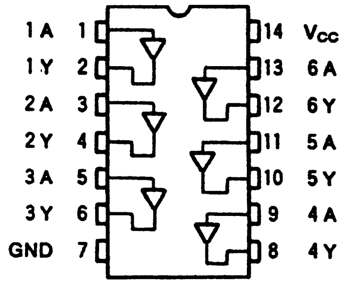
(TOP VIEW)

TRUE Table

INPUT		FUNCTION		OUTPUT
Ḡ	DIR	A BUS	B BUS	HC245A
L	L	OUTPUT	INPUT	A=B
L	H	INPUT	OUTPUT	B=A
H	X	HIIMPEDANCE		Z

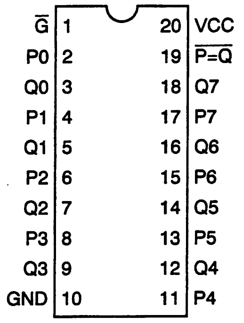
X : Don't care
Z : Hi impedance

■ SN74LS07N [TEXAS]
(Hex Buffers)


1A 1
1Y 2
2A 3
2Y 4
3A 5
3Y 6
GND 7
14 Vcc
13 6A
12 6Y
11 5A
10 5Y
9 4A
8 4Y

(TOP VIEW)

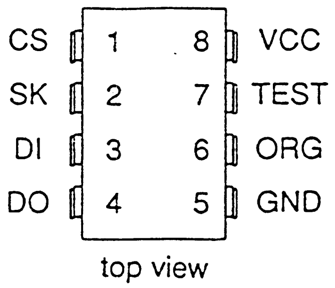
■ SN74LS688N [TEXAS]
(8 Bit Magnitude Comparator)


Ḡ 1
P0 2
Q0 3
P1 4
Q1 5
P2 6
Q2 7
P3 8
Q3 9
GND 10
20 VCC
19 $\overline{P=Q}$
18 Q7
17 P7
16 Q6
15 P6
14 Q5
13 P5
12 Q4
11 P4

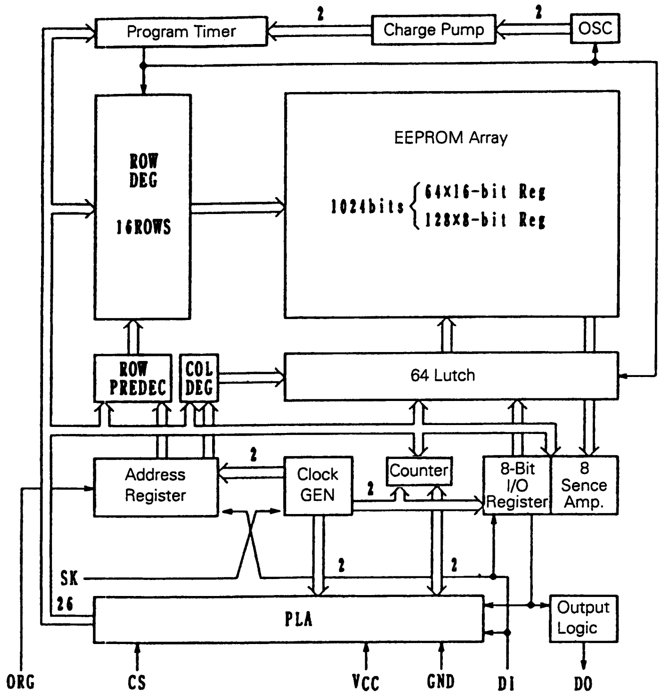
Input		Output
Data	Enable	$\overline{P=Q}$
P, Q	Ḡ	
P=Q	L	L
P>Q	L	H
P<Q	L	H
X	H	H

H : High Level
L : Low Level
X : Don't care

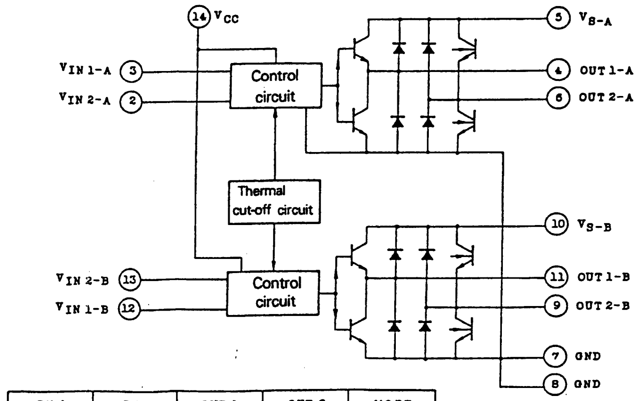
■ ST93C46CB1 [STMicroelectronics]
(EEP.ROM)


CS 1
SK 2
DI 3
DO 4
8 VCC
7 TEST
6 ORG
5 GND
top view

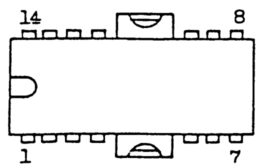
Pin Name	Pin Function
CS	Chip Select
SK	Clock
DI	Serial Data Input
DO	Serial Data Output
VCC	Power
ORG	Memory Select Input
GND	GND
TEST	Sanyo only


Program Timer
2
Charge Pump
2
OSC
ROW DEG 16ROWS
EEPROM Array
1024bits
64X16-bit Reg
128X8-bit Reg
ROW PREDEC
COL DEG
64 Lutch
Address Register
2
Clock GEN
2
Counter
8-Bit I/O Register
8 Sence Amp.
SK
26
2
2
PLA
Output Logic
ORG
CS
VCC
GND
DI
DO

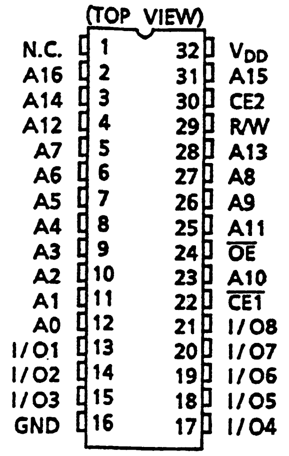
■ TA7279AP [TOSHIBA]
(Motor Drive)


⑭ Vcc
VIN 1-A ③
VIN 2-A ②
Control circuit
Thermal cut-off circuit
VIN 2-B ⑬
VIN 1-B ⑫
Control circuit
⑤ VS-A
④ OUT 1-A
⑥ OUT 2-A
⑩ VS-B
⑪ OUT 1-B
⑨ OUT 2-B
⑦ GND
⑧ GND

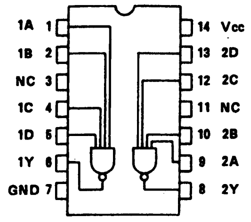
IN 1	IN 2	OUT 1	OUT 2	MODE
1	1	L	L	Brake
0	1	L	H	CW/CCW
1	0	H	L	CCW/CW
0	0	High Impedance		Stop



■ TC551001BFL-70L [TOSHIBA]
(S RAM)


(TOP VIEW)
N.C. 1
A16 2
A14 3
A12 4
A7 5
A6 6
A5 7
A4 8
A3 9
A2 10
A1 11
A0 12
I/O1 13
I/O2 14
I/O3 15
GND 16
32 VDD
31 A15
30 CE2
29 R/W
28 A13
27 A8
26 A9
25 A11
24 $\overline{OE}$
23 A10
22 $\overline{CE1}$
21 I/O8
20 I/O7
19 I/O6
18 I/O5
17 I/O4

■ TC74HC20AP [TOSHIBA]
(Dual 4-Input NAND Gates)


1A 1
1B 2
NC 3
1C 4
1D 5
1Y 6
GND 7
14 Vcc
13 2D
12 2C
11 NC
10 2B
9 2A
8 2Y

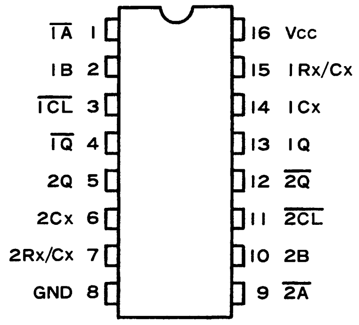
(TOP VIEW)

TRUE Table

A	B	C	D	Y
L	X	X	X	H
X	L	X	X	H
X	X	L	X	H
X	X	X	L	H
H	H	H	H	L

X : Don't Care

■ UPD74HC123AC [NEC]
(Dual Retriggerable Monostable Multivibrators)


1A 1
1B 2
$\overline{1CL}$ 3
$\overline{1Q}$ 4
2Q 5
2Cx 6
2Rx/Cx 7
GND 8
16 Vcc
15 1Rx/Cx
14 1Cx
13 1Q
12 $\overline{2Q}$
11 $\overline{2CL}$
10 2B
9 $\overline{2A}$

(TOP VIEW)

TRUE Table

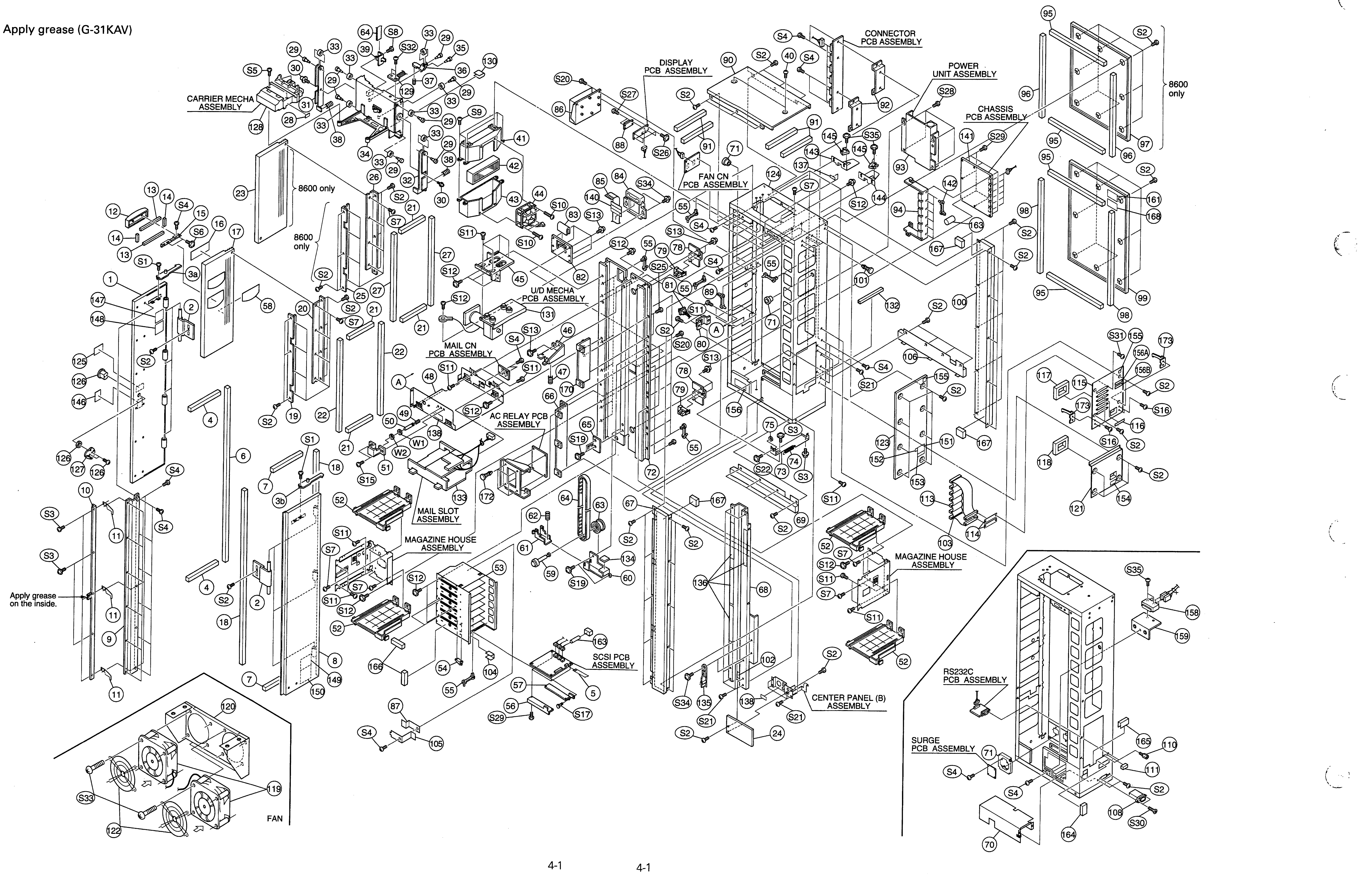
INPUTS			OUTPUTS		NOTE
$\overline{A}$	B	$\overline{OL}$	Q	$\overline{Q}$	
↓	H	H	⊓	⊔	OUTPUT ENABLE
X	L	H	L	H	INHIBIT
H	X	H	L	H	INHIBIT
L	↑	H	⊓	⊔	OUTPUT ENABLE
L	H	↑	⊓	⊔	OUTPUT ENABLE
X	X	L	L	H	INHIBIT

X:DON'T CARE

SECTION 4
EXPLODED VIEW AND PARTS LIST

4.1 FINAL ASSEMBLY M 1

▨ Apply grease (G-31KAV)


CARRIER MECHA ASSEMBLY
8600 only
8600 only
DISPLAY PCB ASSEMBLY
CONNECTOR PCB ASSEMBLY
POWER UNIT ASSEMBLY
CHASSIS PCB ASSEMBLY
8600 only
FAN CN PCB ASSEMBLY
U/D MECHA PCB ASSEMBLY
MAIL CN PCB ASSEMBLY
AC RELAY PCB ASSEMBLY
MAIL SLOT ASSEMBLY
MAGAZINE HOUSE ASSEMBLY
MAGAZINE HOUSE ASSEMBLY
SCSI PCB ASSEMBLY
CENTER PANEL (B) ASSEMBLY
RS232C PCB ASSEMBLY
SURGE PCB ASSEMBLY
Apply grease on the inside.
FAN

4.2 FINAL ASSEMBLY LIST M 1

M 1 M M ☐ ☐ ☐ ☐

Symbol No.	Part No.	Part Name	Description
1	SS22761-00C	DOOR PANEL (L6)	MC-8600
1	SS22759-00C	DOOR PANEL (L2)	MC-8200
2	SS411847-00A	HINGE	MC-8200: x 4
03a	SS412126-F0A	DOOR STAY (L)	
03b	SS412126-R0A	DOOR STAY (R)	
4	SS411853-D07	SPONGE TAPE	
5	SSV3871	FFC	MC-8200
5	SSV3872	FFC	MC-8600
6	SS411853-D10	SPONGE TAPE	MC-8600
6	SS411853-D09	SPONGE TAPE	MC-8200
7	SS411853-D08	SPONGE TAPE	
8	SS22916-00C	DOOR PANEL (R6)	MC-8600
8	SS22915-00C	DOOR PANEL (R2)	MC-8200
9	SS22765-002	D-LOCK BASE (6)	MC-8600
9	SS22764-002	D-LOCK BASE (2)	MC-8200
10	SS35376-001	D-LOCK BAR (6)	MC-8600
10	SS35377-001	D-LOCK BAR (2)	MC-8200
11	SS35732-00A	D-LOCK HOOK	
12	SS22744	FRONT PANEL (M)	
13	SS411853-F07	SPONGE TAPE	
14	SS411853-F08	SPONGE TAPE	
15	SS411931	FP-BKT	
16	SS411842-010	PLATE	
⚠ 17	SS11621-003	MAIN PANEL	
18	SS411853-D11	SPONGE TAPE	MC-8200
18	SS411853-D12	SPONGE TAPE	MC-8600
19	SS35727-001	MP ANGLE (R6)	MC-8600
19	SS35725-001	MP ANGLE (R2)	MC-8200
20	SS35726-001	MP ANGLE (L2)	MC-8200
20	SS35728-001	MP ANGLE (L6)	MC-8600
21	SS411853-F06	SPONGE TAPE	MC-8200: x 2
22	SS411853-F02	SPONGE TAPE	
⚠ 23	SS11622-001	SUB PANEL	MC-8600
24	SS35994-00A	C-PANEL (RRB)	
25	SS35729-001	SP ANGLE (R6)	MC-8600
26	SS35730-001	SP ANGLE (L6)	MC-8600
27	SS411853-F01	SPONGE TAPE	MC-8600
28	SM3921-001	BLANK LABEL	
29	SS410270	R.SHAFT	
30	SS410277	R.B.SHAFT	
31	SS411900-0L1	SR.BRACKET	
32	SS411900-0R1	SR.BRACKET	
33	SS410268-00A	ROLLER	
34	SS35352-00B	C.BASE ASSY	
35	SS410274	SP.SCREW	
36	SS411895-00A	R.HOLDER ASSY	
37	SS411884-001	SPRING	
38	SS410275-002	SPRING	
39	SS411899	BELT BRACKET	
40	SS412031-001	BLIND BOLT	
41	SS22476-002	FILTER CASE A	
42	SS34931-00A	AIR FILTER	
43	SS22477-002	FILTER CASE B	
44	QAR0068-001	FAN MOTOR	
45	SS35408	U/D BASE	
46	SS411883	SP BRACKET	
47	SS411884-003	SPRING	
48	SS11629	MAIL BASE	
49	SS411923-002	SPRING	
50	SS411959-002	MTB SHAFT	

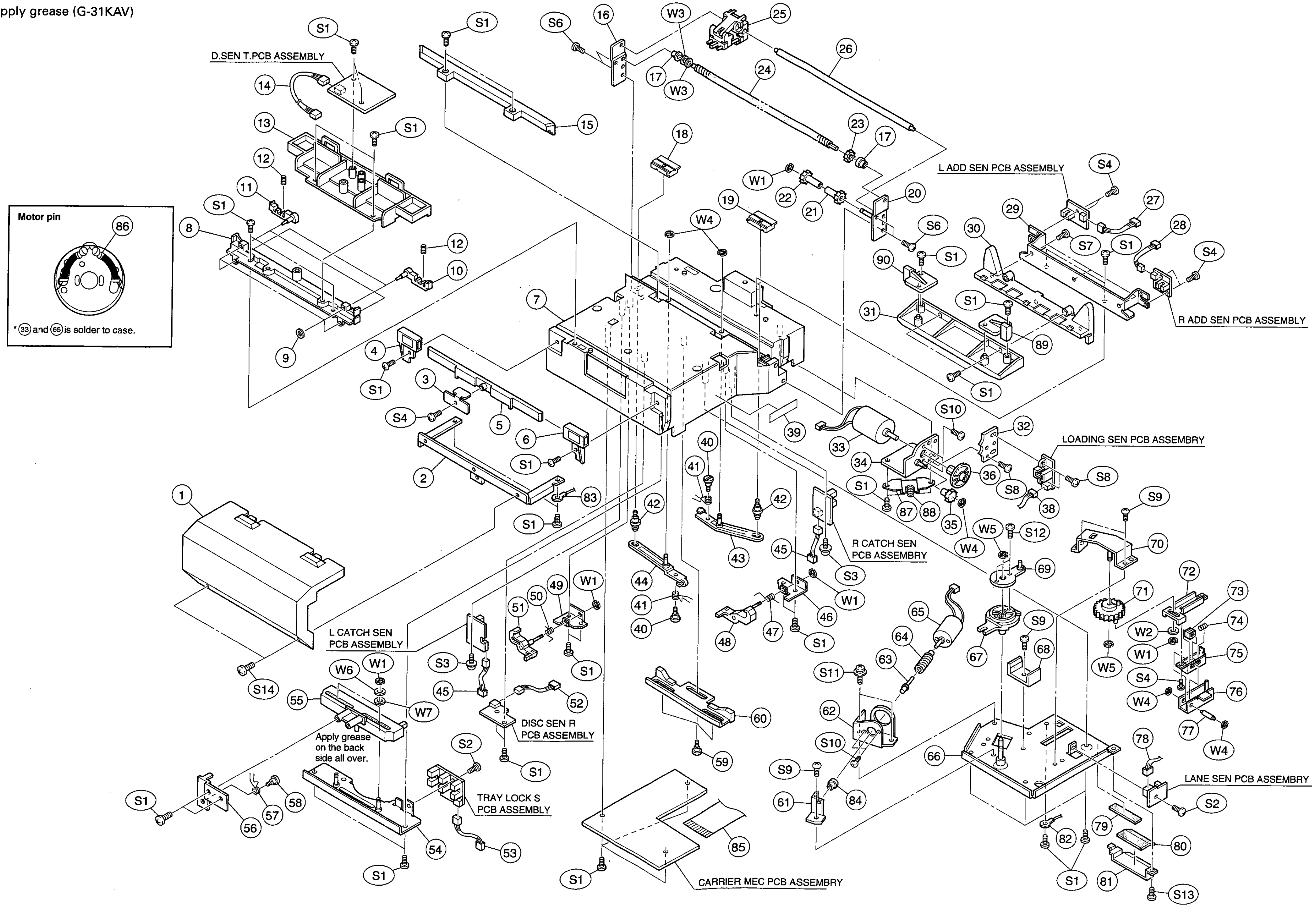
Symbol No.	Part No.	Part Name	Description
51	SS411961	BRACKET	
52	SS22737	SQ PLATE	MC-8200: x 7
53	SS22917-00B	DRIVE HOUSE ASSY	
54	—		
55	SS411880-003	WIRE CLAMP	
56	SS412434-001	S-PCB BKT(B)	
57	SS412433-001	S-PCB BKT(A)	
58	SS413399	SWITCH SHEET	
59	SS48947-002	SHAFT PIN	
60	SS411886	PULLY(B) BKT	
61	SS411882	PULLEY(B)HOLDER	MC-12-UD-PULLY (No. 59 and No. 63) will be supplied as it can not be disassembled.
62	SS411884-002	SPRING	
63	SSV3334	PULLEY(B) ASSY	
64	SSV3221	BELT	MC-8200
64	SSV3220	BELT	MC-8600
65	SS412134	STOPPER	
66	SS413387	C-PCB BKT	
67	SS22907-002	C-PANEL(RR2)	MC-8200
67	SS22909-002	C-PANEL(RR6)	MC-8600
68	SS22903-002	CENTER PANEL(2)	MC-8200
68	SS22904-002	CENTER PANEL(6)	MC-8600
69	SS22905-002	C-PANEL(BR)	
70	SS35734-001	AC BARRIER	
71	SS413601	S. PCB BRACKET	
72	SS11827	GUIDE RAIL(86)	MC-8600
72	SS23202	GUIDE RAIL(82)	MC-8200
73	SS35349-001	CAR-TP HOOK	
74	SS411085-001	SPRING(RH)	
75	SS48507-002	WASHER	
78	SS412015-001	SENSOR BKT	
79	GP1A61LC	SENSOR	
80	SS412006-001	P-SW BKT	
⚠ 81	QSW0520-001	POWER SWITCH	
82	SS412002-001	FCF BKT	
83	HGT19-188UL-NT	TAPE	
84	SS35086-001	C&C FASTENER	
85	SSV2622-30144B	FFC CABLE	MC-8600
85	SSV2622-3084B	FFC CABLE	MC-8200
⚠ 86	SS11623-00D	CONT.PANEL ASSY	
87	SS413012	F.BKT	
88	RCM2060M-B	L.C.DISPLAY	
89	SS411880-006	WIRE CLAMP	
90	SS11638-002	C-PANEL(T)	
91	—		
92	SS412005-001	P.CN-PCB BKT	
⚠ 93	QAL0112-001	POWER SUPPLY	
94	SS35437-001	C-PCB HOOK	
95	SS412012-S03	CUSHION	MC-8200: x 2
96	SS412012-S02	CUSHION	MC-8600
97	SS22793-002	SIDE PANEL(T6)	MC-8600
98	SS412012-S01	CUSHION	
99	SS22792-002	SIDE PANEL	
100	SS22908-002	C-PANEL(RL2)	MC-8200
100	SS22910-002	C-PANEL(RL6)	MC-8600
101	SS411149-005	PCB HOLDER	
102	SS413617-001	C. LABEL-001	
103	PGZ02357	LINE FILTER	
104	SS412017-012	EDGING	
105	SS413010-002	FINGER	
106	SS22906-002	C-PANEL(BL)	

Symbol No.	Part No.	Part Name	Description
107	SS412013-001	AC PANEL	
⚠ 108	QNC0048-001	AC INLET	
109	SS412001-001	D-SUB PANEL	
110	SS411956	STUD	
111	SSV2459-09	DUSTER COVER	
112	SS35436-001	DH-COVER	
113	SSV3880	CN CABLE ASS'Y	
114	SS412019-002	BLIND PANEL	
115	SS36280	REAR PANEL (DH)	
116	SSV2458-050	D-SUB CAP	
117	SS412012-R07	CUSHION	
118	SS412012-R08	CUSHION	
119	QAR0101-001	FAN MOTOR	
120	SS36338	FAN BKT	
121	SS35720-002	REAR PANEL(B)	
122	SSV3695	FAN GUARD	
123	SS36284	REAR PANEL(T2)	MC-8200
123	SS23206	REAR PANEL(T6)	MC-8600
124	SS35478-00G	CABI ASSY(8600)+D.HOUSE	MC-8600
124	SS35477-00G	CABI ASSY(8200)+D.HOUSE	MC-8200
125	SS412123-001	C.LABEL	
126	SS32387-00D	LOCK KEY ASSY	
127	SS411843-001	D LOCK CAM	
128	MC22-CARR	CARRIER MECHA ASSY	
129	SS412157	EARTH	
130	SS412138-002	CUSHION	
131	MC12-UD-M	U/D MOTOR ASSY	
132	SS412017-012	EDGING	
133	MC12-MAIL	MAIL SLOT ASSY	
134	SS412138-001	CUSHION	
135	SS412139-001	IL RELEASE BAR	
136	SS412038-001	No. LABEL(1 — 50)	
136	SS412038-002	No. LABEL(51 — 100)	
136	SS412038-003	No. LABEL(101 — 150)	
136	SS412038-004	No. LABEL(151 — 200)	
136	SS412038-005	No. LABEL(201 — 250)	MC-8600
136	SS412038-006	No. LABEL(251 — 300)	MC-8600
136	SS412038-007	No. LABEL(300 — 350)	MC-8600
136	SS412038-008	No. LABEL(351 — 400)	MC-8600
136	SS412038-009	No. LABEL(401 — 450)	MC-8600
136	SS412038-010	No. LABEL(451 — 500)	MC-8600
136	SS412038-011	No. LABEL(501 — 550)	MC-8600
136	SS412038-012	No. LABEL(551 — 600)	MC-8600
137	SS412043-001	CAUTION LABEL	
138	SS412352-001	CAUTION LABEL	
140	SSV2923	FLAT CORE	
141	MC82-CHAS	CHASSIS PCB ASS'Y	
142	SS411880-004	WIRE CLAMP	
143	SS412125-001	IL RULER	
144	SS412125-002	IL RULER	
145	QSW0540-001	SW	
146	SS412039-001	KEY LABEL	
147	SS35506-002	C. LABEL(TPS/JP)	
148	SS35448-002	C. LABEL(TRY/JP)	
149	SS35508-003	C. LABEL(TRC/JP)	
150	SS35947-003	C. LABEL(MOD/JP)	
151	SS412562-001	RATING LABEL	
152	SS412084-002	FCC LABEL	
153	SS48287-002	CAUTION. LABEL	
154	SC40865-001	WARNING. LABEL	

Symbol No.	Part No.	Part Name	Description
155	SS412043-001	CAUTION. LABEL	
156A	SS412047-001	UL LABEL	
156B	SS412174-002	CE/TUV LABEL	
157	SSV2923	FLAT CORE	
159	SS412476-001	CPL SW BASE	
161	SS47383-001	C. LABEL	
163	QQR0216-001	CLAMP FILTER	CN13(for AP), CN900 (for CHAS),
164	SS412732-A0040	GASKET	
165	SS412017-012	EDGING	
166	SS412732-B0030	GASKET	
167	SS412012-C01	CUSHION	
168	SS412716-001	C. LABEL	
169	SS413622-001	C. LABEL	
170	SS413581	D. PCS BRACKET	
171	SS413601	S. PCB BRACKET	
172	SS413385	P. BRACKET	
173	SS413386	REAR PANEL HOOK	
S1	SS411848-001	SCREW	
S2	QYSDSTY3006X	SCREW	
S3	SS411339-001	SCREW	
S4	QYSDST3006M	SCREW	M3 x 6
S5	QYSDSP3006M	SCREW	M3 x 6
S6	QYSBSFG3006M	SCREW	
S7	QYSBSF3008M	SCREW	M3 x 8
S8	QYSDSF3006M	SCREW	
S9	QYSBSF3012M	SCREW	
S10	QYSBSF4035M	SCREW	
S11	QYSDST4008M	SCREW	M4 x 8
S12	QYSPSPD4008Z	SCREW	M4 x 8
S13	QYSPSPD3006Z	SCREW	
S14	QYSBST4008N	SCREW	M4 x 8
S15	QYSDSP3005M	SCREW	
S16	QYSPSP2604Z	SCREW	
S17	SS411759-002	SCREW	
S18	QYSDST3006Z	SCREW	M3 x 6
S19	QYSDSP4008M	SCREW	
S20	QYSDST3010M	SCREW	M3 x 10
S21	SXST4008N	SCREW	
S22	QYSPSPD4010Z	SCREW	M4 x 10
S23	QYSDSTY3006N	SCREW	
S24	QYSBSTG3010M	SCREW	
S25	QYSDST3008M	SCREW	M3 x 8
S26	QYSBSFG3008M	SCREW	
S27	QYSDSP2004N	SCREW	M2 x 4
S28	QYAPSPL4010Z	SCREW	M4 x 10
S29	QYSBST3006X	SCREW	M3 x 6
S30	QYSSST3008M	SCREW	
S31	QYSPSP3008Z	SCREW	M3 x 8
S33	QYSDSTY3008X	SCREW	
S34	QYSBSTG3008M	SCREW	
S35	QYSPSPL2310Z	SCREW	
W1	QYWSS439008Z	WASHER	
W2	QYREE2500	E WASHER	

4.3 CARRIER ASSEMBLY M 2

▨ Apply grease (G-31KAV)


Motor pin
* ㉝ and ㊵ is solder to case.
D.SEN T.PCB ASSEMBLY
L ADD SEN PCB ASSEMBLY
R ADD SEN PCB ASSEMBLY
LOADING SEN PCB ASSEMBRY
R CATCH SEN PCB ASSEMBRY
L CATCH SEN PCB ASSEMBLY
DISC SEN R PCB ASSEMBLY
TRAY LOCK S PCB ASSEMBLY
Apply grease on the back side all over.
LANE SEN PCB ASSEMBRY
CARRIER MEC PCB ASSEMBRY

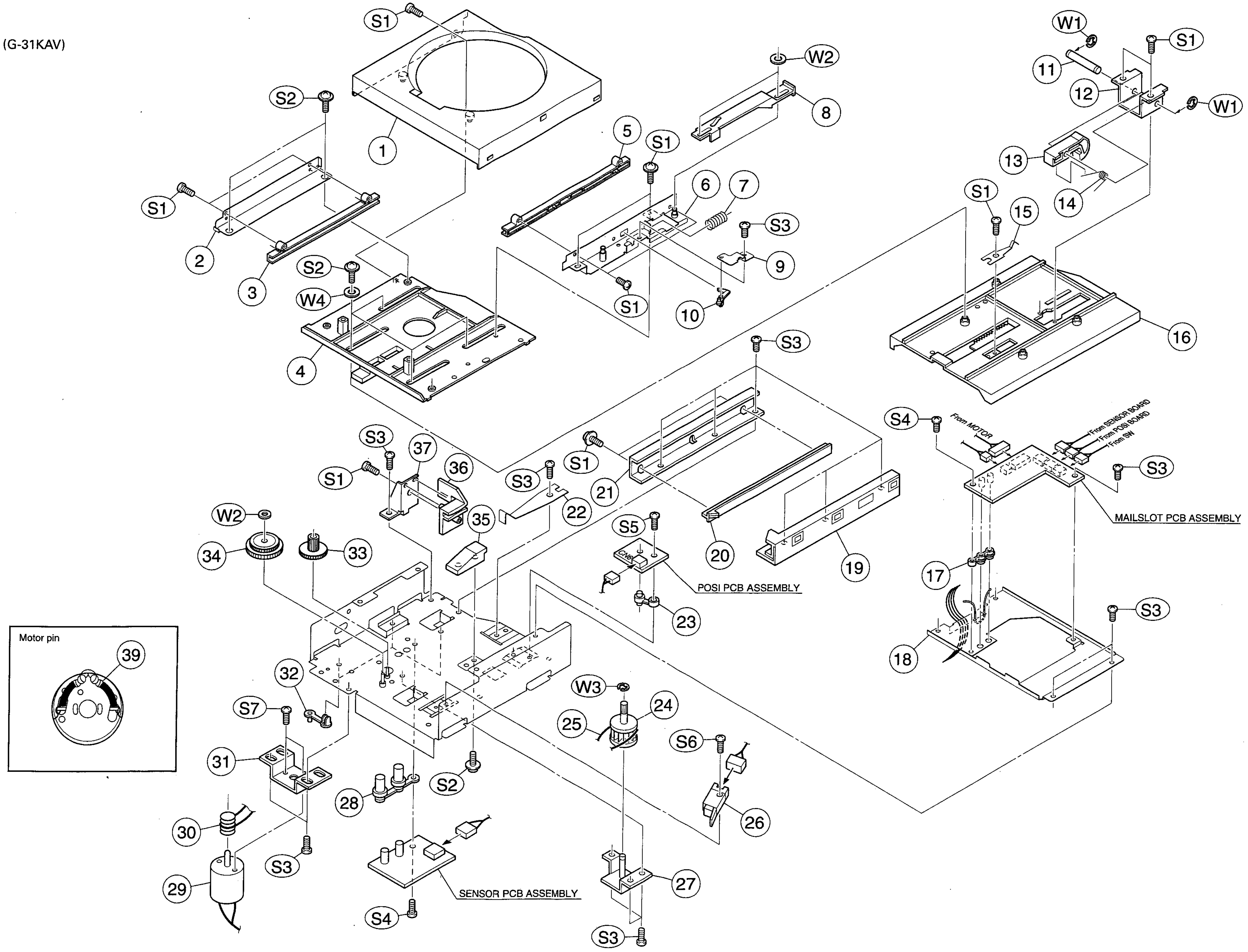
4.4 CARRIER MECHANISM ASSEMBLY LIST M2

M2MM☐☐☐☐

Symbol No.	Part No.	Part Name	Description
1	SS35345	ILL.CASE	
2	SS35406	ILL.BRACKET	
3	SS412167	TL-BRACKET	
4	SS35343-001	T.L HOLDER	
5	SS411943	T-LINK	
6	SS35343-002	T.L HOLDER	
7	SS22745-00B	C.CHASSIS ASSEMBLY	
8	SS22739	TRAY GUIDE(F)	
9	SS48906-003	STOPPER(1)	
10	SS411807-002	PUSHER	
11	SS411807-001	PUSHER	
12	SS411908-001	SPRING	
13	SS22740	DISK STOPPER(F)	
14	PHY214PH02N	WIRE ASSEMBLY	
15	SS411912	H.RAIL	
16	SS410979-004	S.SUPPORT	
17	SS410982-002	C.H.S.BEARING	
18	SS412600-002	C.SLIDER	
19	SS412600-001	C.SLIDER	
20	SS410978-00C	S.SUPPORT ASSEMBLY	
21	SS48874	J.GEAR	
22	SS411806	J.GEAR	
23	SS410295	C.H.S.GEAR	
24	SS411904	C.H.W.GEAR	
25	SS34908-00D	C. HOLDER ASSEMBLY	
26	SS411903	H.SHAFT	
27	EHT309EH03N	WIRE	
28	EHT312EH03N	WIRE	
29	SS35405	T.G.HOLDER	
30	SS22741	T.GUIDE(R)	
31	SS35344-002	DISK STOPPER(R)	
32	SS410976	S.BASE	
33	SSV2793	DC MOTOR	MC12-LOAD-M (LOADING M ASSY) will be supplied as it can not be disassembled.(W4 and S10 is included)
34	SS411906-00A	TLM BRA ASSEMBLY	
35	SS48863-002	SL.GEAR	
36	SS412601-00B	SENSOR GEAR ASS'Y	
38	PHY412PH04N	WIRE	
39	SM3921-001	LABEL	
40	SS410973	LSP.SHAFT	
41	SS410972-002	L.SPRING	
42	SS410966	C.S.SHAFT	
43	SS411915-00A	LEVER(R) ASSEMBLY	
44	SS411902-00A	LEVER(L) ASSEMBLY	
45	PHY307PH03N	WIRE	
46	SS411003-001	CS.BRACKET	
47	SS411002-002	SPRING	
48	SS411907-00B	T.STOPPER ASSEMBLY	
49	SS411003-002	CS.BRACKET	
50	SS411002-001	SPRING	
51	SS411907-00A	T.STOPPER ASSEMBLY	
52	EHT212EH02N	WIRE	
53	PHYD06PH05N	WIRE ASSEMBLY	
54	SS410991-00A	TL.BRACKET ASSEMBLY	
55	SS410993-00A	T.L-LINK ASSEMBLY	
56	SS411911	TLS.BRACKET	
57	SS410997-002	SPRING	
58	SS410996	TL SCREW	
59	SS410999	SCREW	
60	SS411918-00A	CAM BRACKET	
61	SS411008-002	BRACKET	
62	SS411009	MOTOR BRACKET	
63	SS411007	W.SHAFT	MC12-TR-M (TRAY LOCK M ASSY) will be supplied as it can not be disassembled.
64	SS411006	WORM GEAR	
65	SSV2793	DC MOTOR	
66	SS411004-00A	BASE ASSEMBLY	
67	SS411025	R.PLATE	
68	SS411010	GUIDE	
69	SS411026-00A	PLATE ASSEMBLY	
70	SS411022-00A	BRACKET ASSEMBLY	
71	SS411011-00A	WORM WHEEL ASSEMBLY	
72	SS411017-002	PL BASE	
73	SS411016	SLIDER	
74	SS410961-002	SPRING	
75	SS411015	S.BRACKET	
76	SS411018-00A	L.BRACKET ASSEMBLY	
77	SS411021	PIN	
78	EHT308EH03N	WIRE	
79	SS411044-002	CUSHION	
80	SS411044-001	CUSHION	
81	SS411035	WC BRACKET	
82	SS411394-00B	C.WIRE ASSEMBLY	
83	SS411394-00A	C.WIRE ASSEMBLY	
84	SS411340	BUSH	
85	SSV2622-3084B	FLAT CABLE	MC-8200
85	SSV2622-30144B	FLAT CABLE	MC-8600
86	QCFB1HZ-104YR	C CAP	
87	SS411415	S.BRACKET	
88	SS411419-001	SPRING	
89	SS412141-001	PROTECTOR	
90	SS412141-002	PROTECTOR	
S1	QYSDSF3008M	SCREW	M3 X 8
S2	QYSDSP2604M	SCREW	M2.6 X 4
S3	QYSBSFG3008M	SCREW	M3 X 8
S4	QYSDSP2004M	SCREW	M2 X 4
S6	QYSDST2005Z	SCREW	M2 X 5
S7	QYSBSF2606Z	SCREW	M2.6 X 6
S8	QYSDSP2006M	SCREW	M2 X 6
S9	QYSDST3006M	SCREW	M3 X 6
S10	QYSPSP3003Z	SCREW	M3 X 3
S11	QYSPSPD3006M	SCREW	M3 X 6
S12	QYSDSF2004M	SCREW	M2 X 4
S13	QYSDSP3006M	SCREW	M3 X 6
S14	QYSDST3008M	SCREW	M3 X 8
W1	QYREE2000X	E RING	
W2	QYWSS327005Z	WASHER	
W3	QYWFM264750	POLY WASHER	
W4	QYREE1500	E RING	
W5	QYREE3000X	E WASHER	
W6	QYWFM315450	POLY WASHER	
W7	QYWFM315425	WASHER	

4.5 MAIL SLOT ASSEMBLY M3

▨ Apply grease (G-31KAV)

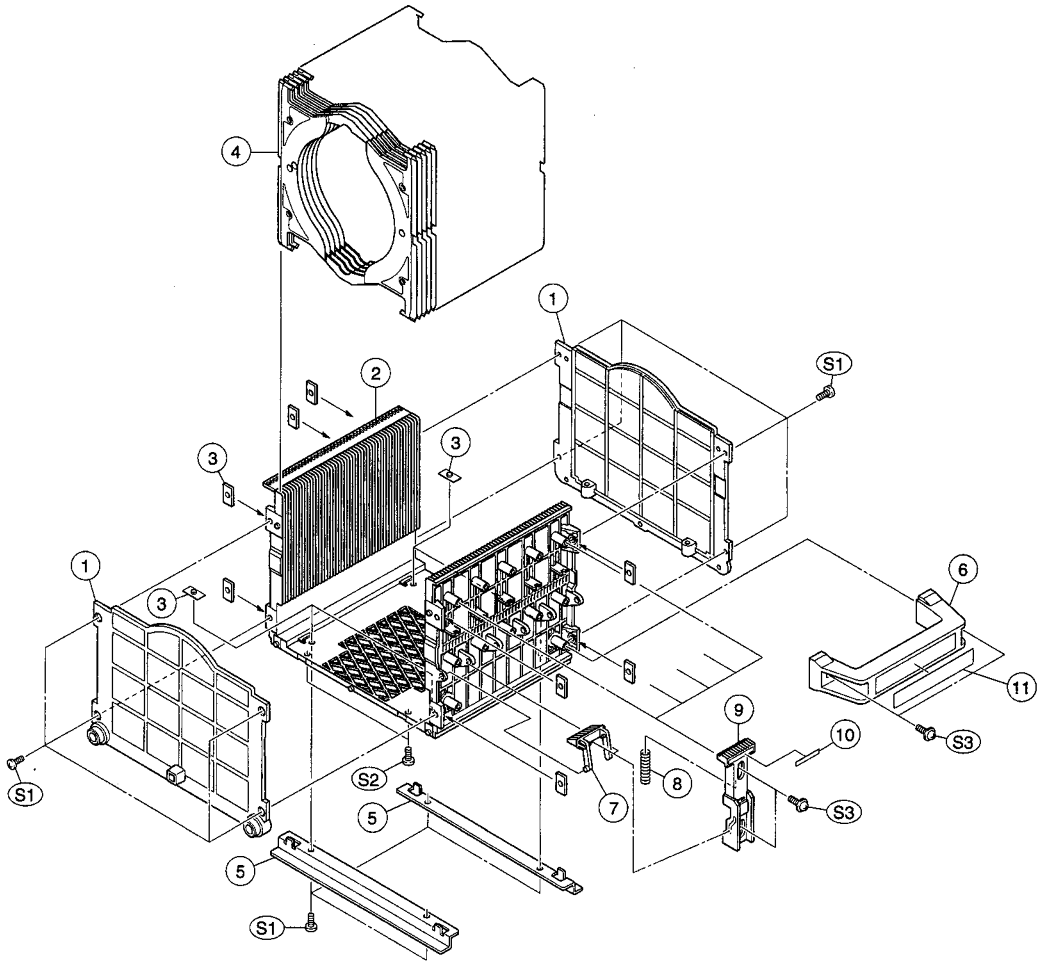

S1
S2
1
S1
2
3
S2
W4
4
5
S1
6
7
S3
W2
8
9
S1
10
W1
S1
11
12
W1
13
14
S1
15
16
S3
S4
From MOTOR
From SENSOR BOARD
From POSI BOARD
From SW
S3
MAILSLOT PCB ASSEMBLY
S3
37
36
S1
S3
S1
21
22
35
W2
34
33
S5
CN
POSI PCB ASSEMBLY
20
19
17
23
S3
18
Motor pin
39
32
S7
W3
24
25
S6
31
28
S2
26
30
S3
29
SENSOR PCB ASSEMBLY
S4
27
S3

4.6 MAIL SLOT ASSEMBLY LIST M3

M3MM☐☐☐☐

Symbol No.	Part No.	Part Name	Description
1	SS11616-002	GUIDE	
2	SS411934	TGR BRACKET	
3	SS35350	TRAY GUIDE(R)	
4	SS22743	BASE	
5	SS35349	T.RAIL(F)	
6	SS411927-00B	TGF BKT ASSEMBLY	
7	SS411923-001	SPRING	
8	SS35348	TL PUSHER	
9	SS411938	TLG BRACKET	
10	SS411920	TRAY LOCK	
11	SS411919	SL SHAFT	
12	SS411924-002	ST BRACKET	
13	SS411925-002	STOPPER	
14	SS411922	SPRING	
15	SS411935	P.SPRING(UD)	
16	SS22742	GEAR BASE	
17	SS411929-002	S.GUIDE	
18	SS35409	SEN.HOLDER	
19	SS35347	BASE GUIDE(F)	
20	SS35351	BASE GUIDE(R)	
21	SS411936	BGR BRACKET	
22	SS411942	P.SPRING	
23	SS412048	PCB SPACER	
24	SSV3280	PULLEY-GEAR	
25	SSV3222	BELT	
26	SSV1835	SW	
27	SS411932-00C	P.G.BKT ASSEMBLY	
28	SS411929-001	S.GUIDE	
29	SSV2793	DC MOTOR	MC12-RAIL-M (RAIL MOTOR ASSY) will be supplied as it can not be disassembled.
30	SSV3279	PULLEY	
31	SS411930	MOTOR BRACKET	
32	SS411880-003	CLAMP	
33	SS411811	GEAR-3	
34	SS411812	GEAR-4	
35	SS411926	STOPPER(B)	
36	SS35410	TRAY GUIDE(S)	
37	SS411937	TGS BRACKET	
38	SS411941-00B	B.BASE ASSEMBLY	
39	QCFB1HZ-104Y	C CAP	
S1	QYSDSF3006M	SCREW	M3 X 6
S2	QYSBSFG3006M	SCREW	M3 X 6
S3	QYSDST3006M	SCREW	M3 X 8
S4	QYSDST3010M	SCREW	M3 X 10
S5	QYSDSP2610Z	SCREW	M2.6 X 10
S6	QYSDSP2008M	SCREW	M2 X 8
S7	QYSPSP3003Z	SCREW	M3 X 3
W1	QYREE2000	WASHER	
W2	WDL260550-2	WASHER	
W3	QYWDL2140254	WASHER	
W4	QYWFM629513	WASHER	

4.7 MAGAZINE ASSENBLY M4

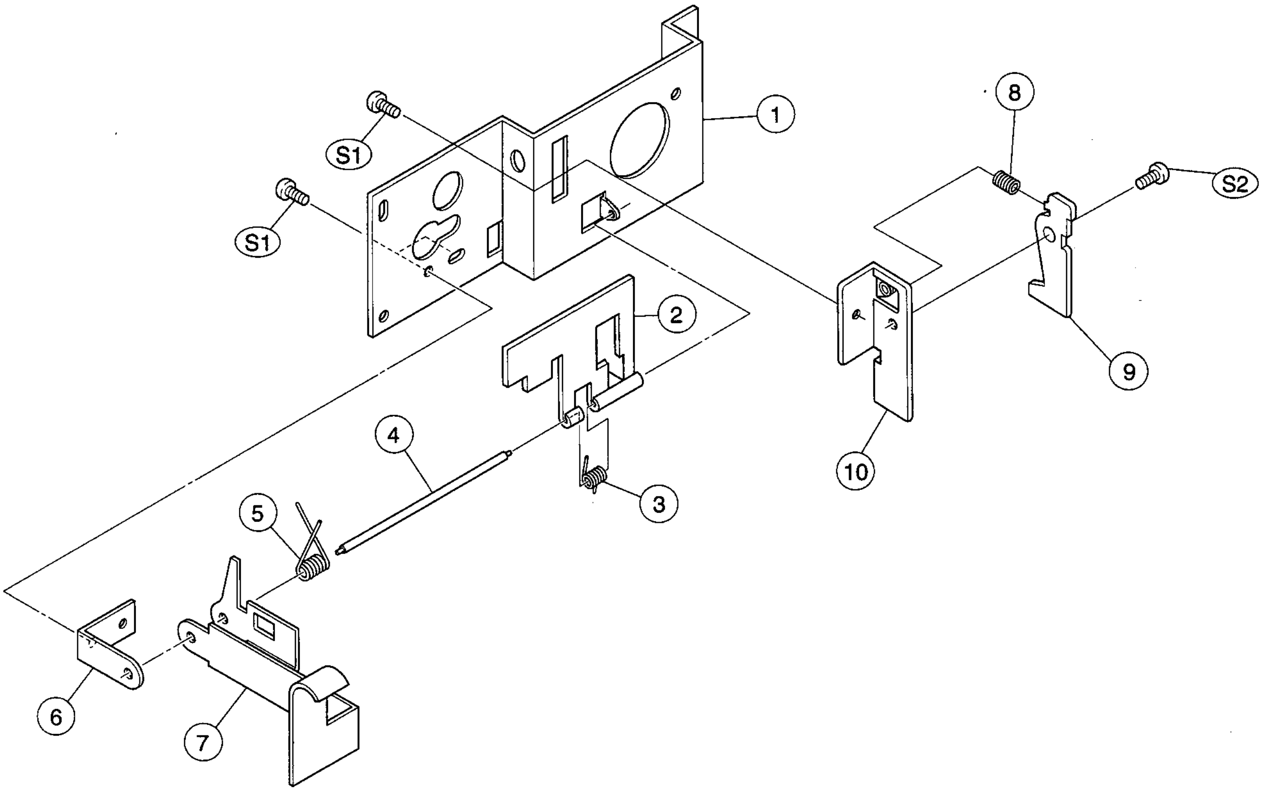


4.8 MAGAZINE ASSENBLY LIST M4

M4MM☐☐☐☐

Symbol No.	Part No.	Part Name	Description
1	SS22736-001	TB PLATE	
2	SS11613-001	RAIL BOX	
3	SS411080-001	NUT PLATE	
4	SS22735-004	TRAY	
5	SS412024-001	R-GUIDE BAR	
6	SS35337-001	GRIP	
7	SS35338-001	TRAY LOCK	
8	SS411084-001	SPRING(TL)	
9	SS35339-001	T.L.PUSHER	
10	SS411851-001	LABEL(ADRS)	(1–50)
11	SS411852-001	LABEL(No. 1–4)	
S1	QYSDSP3008M	SCREW	M3 X 8
S2	QYSBSF3008M	SCREW	M3 X 8
S3	QYSBSFG3008M	SCREW	M3 X 8

4.9 CENTER PANEL (B) ASSENBLY M 5



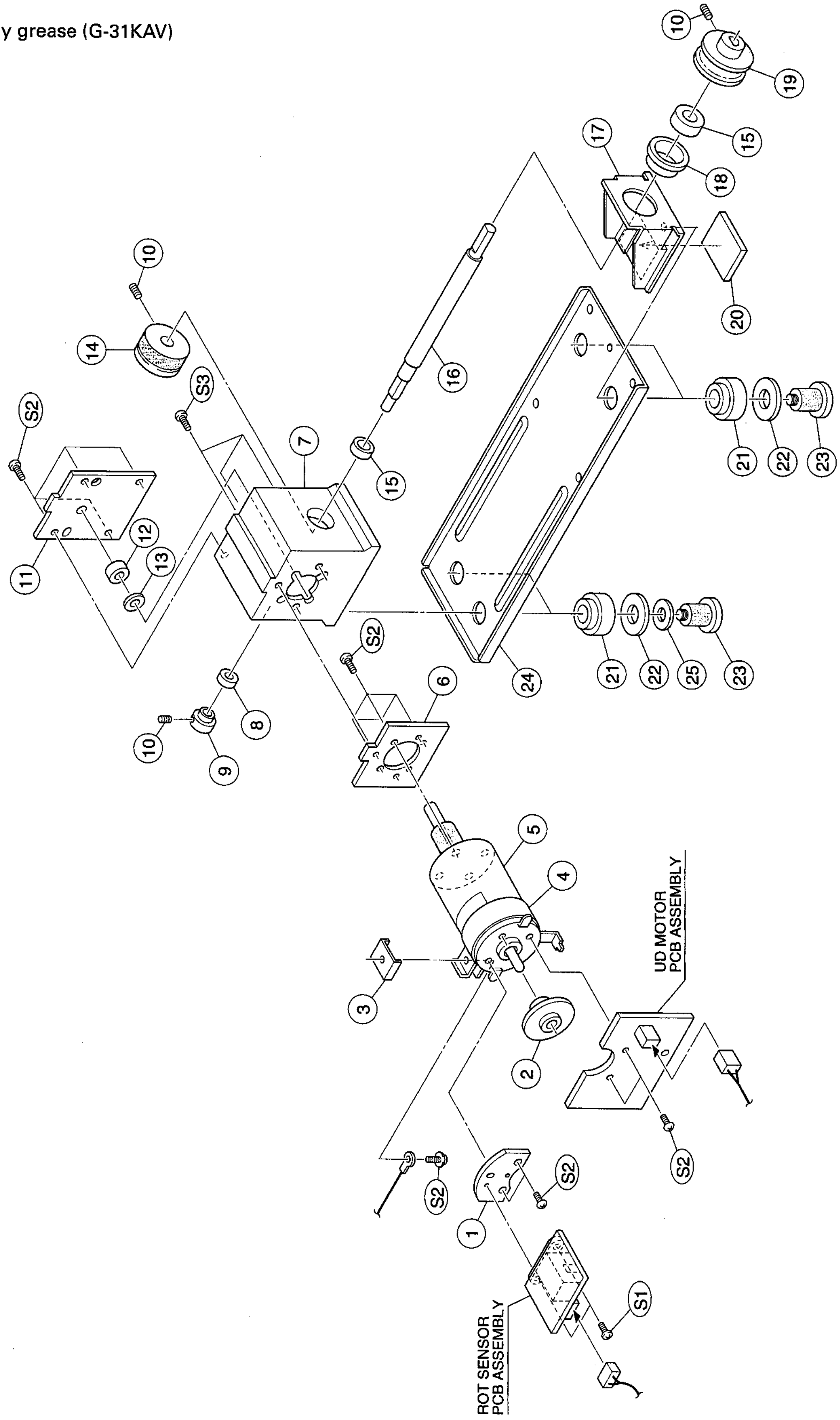
4.10 CENTER PANEL (B) ASSENBLY LIST M 5

M 5 M M ☐ ☐ ☐ ☐

Symbol No.	Part No.	Part Name	Description
1	SS35499-002	CENTER PANEL(B)	
2	SS412116-003	SDL-HOOK	
3	SS412120	SPRING	
4	SS412118-001	SDL-SHAFT	
5	SS412119	SPRING	
6	SS412117-001	SDL-SHAFT. BKT	
7	SS35500-002	SDL-LEVER	
8	SS412481-002	SPRING	
9	SS412474-003	CPL-HOOK	
10	SS412475-003	CPLH-BASE	
S1	QYSDST3006M	SCREW	
S2	SS411339-001	SCREW	

4.11 U/D MECHANISM ASSENBLY M 6

▨ Apply grease (G-31KAV)

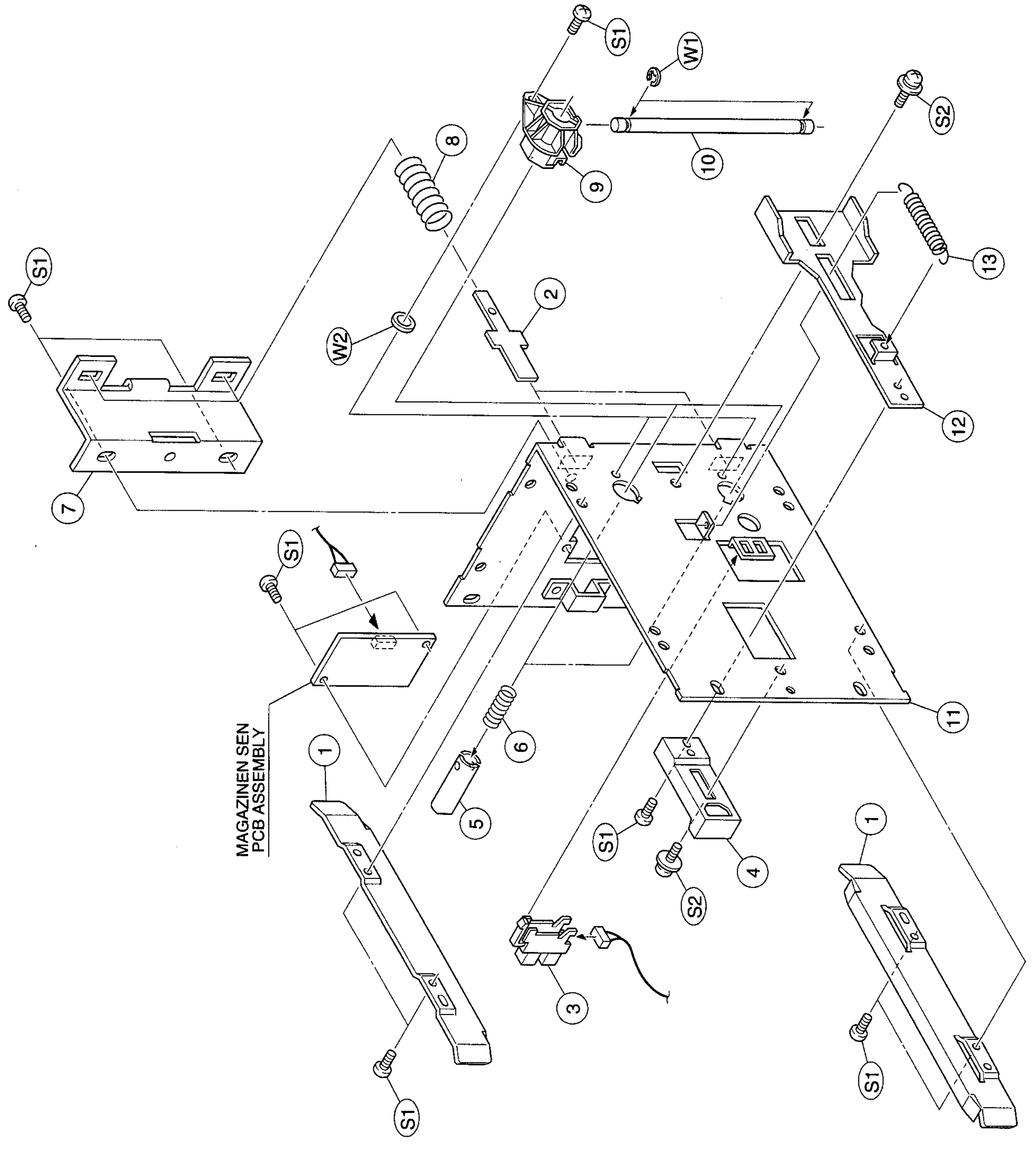

10
19
15
17
18
20
10
14
S3
16
S2
7
15
21
22
23
11
12
13
S2
6
24
21
22
25
23
8
10
9
5
4
UD MOTOR
PCB ASSEMBLY
3
2
S2
S2
S2
1
S1
ROT SENSOR
PCB ASSEMBLY

4.12 U/D MECHANISM ASSENBLY LIST M6

M6MM☐☐☐☐

Symbol No.	Part No.	Part Name	Description
1	SS411891	SENSOR BASE	
2	SS411944-00A	SENSOR PLATE ASSEMBLY	
3	SS412027	T PLATE	
4	SS412026	N BAND	
5	QAR0004-001	MOTOR	
6	SS411889	PLATE	
7	SS35346	GEAR BOX	
8	SS410822-002	B.BEARING	
9	SS411888-002	STOPPER	
10	QYYASPR3006M	S.SET SCREW	
11	SS411813	SIDE COVER	
12	SS45160-001	BALL BEARING	
13	QYWFM629513	WASHER	
14	SS411817-00A	W.WHEEL ASSEMBLY	
15	SS45160-006	BEARING	
16	SS411892	SHAFT	
17	SS411896	HOLDER	
18	SS410813	B.HOLDER	
19	SS49074-00B	PULLEY (T) ASSEMBLY	
20	SS410379-002	CUSHION	
21	SS410319	BUSHING	
22	SS410320	SPACER	
23	SS410893	SP.SCREW	
24	SS411901	TOP PLATE	
25	QYWSS64C516N	WASHER	
S1	QYSDSF2005M	SCREW	M2 X 5
S2	QYSPSPL3008M	SCREW	M3 X 8
S3	QYSDSP3005M	SCREW	M3 X 5

4.13 MAGAZINE HOUSE ASSENBLY M 7


S1
W1
S2
8
10
9
13
S1
2
W2
12
7
S1
11
MAGAZINEN SEN PCB ASSEMBLY
1
6
5
S1
4
S2
1
3
S1
S1

4.14 MAGAZINE HOUSE ASSENBLY LIST M7

M7MM☐☐☐☐

Symbol No.	Part No.	Part Name	Description
1	SS35442-001	GUIDE RAIL(P)	
2	SS412022-001	ST-BAR	
3	GP1A61LC	SENSOR	
4	SS35340-002	KNOB	
5	SS35341-001	LOCK PIN	
6	SS412036-002	SPRING	
7	SS412025-001	STOPPER BASE	
8	SS412036-003	SPRING	
9	SS35342-002	L-PIN HOLDER	
10	SS412035-001	JOINT SHAFT	
11	SS35536-00A	M-HOUSE ASS'Y	
12	SS35443-001	SLIDE BAR	
13	SS411085-001	SPRING(RH)	
14	SS412160-001	M-H-BRACKET	
15	SS412962	SPACER	
S1	QYSDST3006M	SCREW	M3 X 6
S2	SS411339-001	SCREW	
W1	QYREE3000X	E.WASHER	
W2	Q03093-826	POLI SLIDER	

SECTION 5

ELECTRICAL PARTS LIST

SAFETY PRECAUTION:

Parts identified by the ⚠ symbol are critical for safety. Replace only with specified parts numbers.
For maximum reliability and performance, all other replacement parts should be identical to those specified.

NOTE:

- Parts not denoted by parts numbers are not supplied by JVC.
- Abbreviations in this list are as follows:

RESISTORS

In the "Description" column:

All resistance values are in ohms (Ω).
k expresses kilo-ohm (1 000 ohms, kΩ).
M expresses mega-ohm (10^6 ohms, MΩ).

In the "Parts Name"column:

CAR.RESISTOR : Carbon Resistor
C.M.F.RESISTOR : Constant Metalized Film Resistor
COMP.RESISTOR: Composition Resistor
FUSI.RESISTOR : Fusible Resistor
M.F.RESISTOR : Metal Film Resistor
M.G.RESISTOR : Metal Graze Resistor
M.P.RESISTOR : Metal Plate Resistor
O.M.F.RESISTOR : Oxide Metalized Film Resistor
TRIM.RESISTOR : Trimerer Resistor
U.F.RESISTOR : Non-inflammable Resistor
VAL.RESISTOR : Valiable Resistor
W.W.RESISTOR : Wire Wound Resistor

CAPACITORS

In the "Description" column:

All capacitance values are in microfarad (μ F) unless otherwise indicated.
p expresses picofarad (10^{-12} farad,pF).

In the "Parts Name" column:

CER.CAPACITOR : Ceramic Capacitor
E.CAPACITOR : Electrolytic Capacitor
FILM CAPACITOR : Film Capacitor
M.F.CAPACITOR : Metalized Film Capacitor
MICA CAPACITOR : Mica Capacitor
MPP CAPACITOR : Metalized PolyPropylene Capacitor
MPPS CAPACITOR : Metalized PolyPhenylene Sulfied film Capacitor
M.M.CAPACITOR : Metalized Mylar Capacitor
MYLAR CAPACITOR : Mylar Capacitor
N.P.CAPACITOR : Non-Poler electrolytic Capacitor
P.P.CAPACITOR : PolyPropylene Capacitor
PPS CAPACITOR : PolyPhenylene Sulfied film Capacitor
P.S.CAPACITOR : PolyStyrene Capacitor
TAN.CAPACITOR : Tantal Capacitor
TRIM.CAPACITOR : Trimer Capacitor
VAL.CAPACITOR : Valiable Capacitor

5.1 CHASSIS BOARD ASSEMBLY PARTS LIST [0][1]

[0][1][ ][ ][ ][ ][ ][ ]

Symbol No.	Part No.	Part Name	Description
IC1	MC74AC32N	I.C.	
IC205	MC74HC125AN	I.C(DIGI-MOS)	
IC310	MC74AC373N	I.C.	
IC311	MC74AC373N	I.C.	
IC320	PLSS1719	EP-ROM	M27C512-15F1
IC321	PLSS1719	EP-ROM	M27C512-15F1
IC340	MC74AC139N	I.C.	
IC341	MC74HC04AN	I.C(DIGI-MOS)	MOTOROLA
IC342	SN74LS688N	I.C.	
IC360	HA16103PJ	I.C(MONO-ANA)	
IC361	UPD74HC123AC	I.C(DIGI-MOS)	NEC
IC400	MP4708	F.E.T.	
IC410	MC74HC08AN	I.C.(M)	MOTOROLA
IC420	MC74HC04AN	I.C(DIGI-MOS)	MOTOROLA
IC450	SN74LS07N	I.C.(DIGI-OTHER	TEXAS
IC520	MC74HC04AN	I.C(DIGI-MOS)	MOTOROLA
IC530	MC74HC08AN	I.C.(M)	MOTOROLA
IC600	TA7279AP	I.C(MONO-ANA)	
IC700	M66500SP	I.C(DIGI-MOS)	
IC710	TA7279AP	I.C(MONO-ANA)	
IC730	TA7279AP	I.C(MONO-ANA)	
IC750	TA7279AP	I.C(MONO-ANA)	
IC770	MC74AC573N	I.C.	
IC771	MC74AC573N	I.C.	
IC820	MC74AC573N	I.C.	
IC900	MC74AC573N	I.C.	
IC910	MC74HC125AN	I.C(DIGI-MOS)	
Q110	2SC1384/R/	SI.TRANSISTOR	MATSUSHITA
Q360	DTC124ESA-T	TRANSISTOR	
Q401	2SC1384/R/	SI.TRANSISTOR	MATSUSHITA
Q402	2SA684/R/	SI.TRANSISTOR	MATSUSHITA
Q403	2SA1309A/RS/-T	TRANSISTOR	MATSUSHITA
Q404	2SC3311A/RS/-T	SI.TRANSISTOR	MATSUSHITA
Q405	2SC1384/R/	SI.TRANSISTOR	MATSUSHITA
Q406	2SA684/R/	SI.TRANSISTOR	MATSUSHITA
Q407	2SA1309A/RS/-T	TRANSISTOR	MATSUSHITA
Q408	2SC3311A/RS/-T	SI.TRANSISTOR	MATSUSHITA
Q409	2SC1384/R/	SI.TRANSISTOR	MATSUSHITA
Q410	2SC1384/R/	SI.TRANSISTOR	MATSUSHITA
Q480	DTC124ESA-T	TRANSISTOR	
Q500	SLA4391	TRANSIST.ARRAY	
D110	ERA15-02-T1	DIODE	FIJI ELECTRIC
D300	ERA82-004-T1	SI.DIODE	
D301	MA700A-T2	DIODE	MATSUSHITA
D302	ERA82-004-T1	SI.DIODE	
D303	HZ3B2	ZENER DIODE	HITACHI
D360	ERA15-02-T1	DIODE	FIJI ELECTRIC
D501	SB540	SI.DIODE	GENERAL INST
D502	SB540	SI.DIODE	GENERAL INST
D600	ERA82-004-T1	SI.DIODE	
D601	ERA82-004-T1	SI.DIODE	
D602	ERA82-004-T1	SI.DIODE	
D603	ERA82-004-T1	SI.DIODE	
D604	ERA82-004-T1	SI.DIODE	
D605	ERA82-004-T1	SI.DIODE	
D606	ERA82-004-T1	SI.DIODE	
D607	ERA82-004-T1	SI.DIODE	
D700	ERA82-004-T1	SI.DIODE	
D701	ERA82-004-T1	SI.DIODE	
D702	ERA82-004-T1	SI.DIODE	
D703	ERA82-004-T1	SI.DIODE	
D720	ERA82-004-T1	SI.DIODE	
D721	ERA82-004-T1	SI.DIODE	
D722	ERA82-004-T1	SI.DIODE	
D723	ERA82-004-T1	SI.DIODE	
D730	ERA82-004-T1	SI.DIODE	
D731	ERA82-004-T1	SI.DIODE	
D732	ERA82-004-T1	SI.DIODE	
D733	ERA82-004-T1	SI.DIODE	
D750	ERA82-004-T1	SI.DIODE	
D751	ERA82-004-T1	SI.DIODE	
D752	ERA82-004-T1	SI.DIODE	
D753	ERA82-004-T1	SI.DIODE	
D760	ERA82-004-T1	SI.DIODE	
D761	ERA82-004-T1	SI.DIODE	
D762	ERA82-004-T1	SI.DIODE	
D763	ERA82-004-T1	SI.DIODE	
D780	ERA82-004-T1	SI.DIODE	
D781	ERA82-004-T1	SI.DIODE	
D782	ERA82-004-T1	SI.DIODE	
D783	ERA82-004-T1	SI.DIODE	
LD360	SEL6210R-T	L.E.D.	
R1	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R2	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R3	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R5	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R6	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R7	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R8	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R9	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R10	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R11	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R12	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R13	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R14	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R15	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R16	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R19	QRE141J-0R0Y	CARBON RESISTOR	0 1/4W
R20	QRE141J-0R0Y	CARBON RESISTOR	0 1/4W
R21	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R22	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R23	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R24	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R41	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R42	QRE141J-470Y	CARBON RESISTOR	47 1/4W
R43	QRE141J-102Y	CARBON RESISTOR	1.0K 1/4W
R44	QRE141J-471Y	CARBON RESISTOR	470 1/4W
R45	QRE141J-471Y	CARBON RESISTOR	470 1/4W
R46	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R47	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R51	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R52	QRE141J-470Y	CARBON RESISTOR	47 1/4W
R53	QRE141J-102Y	CARBON RESISTOR	1.0K 1/4W
R54	QRE141J-471Y	CARBON RESISTOR	470 1/4W
R55	QRE141J-471Y	CARBON RESISTOR	470 1/4W
R56	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R57	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R110	QRE141J-223Y	CARBON RESISTOR	22K 1/4W
R111	QRE141J-472Y	CARBON RESISTOR	4.7K 1/4W
R300	QRE141J-181Y	CARBON RESISTOR	180 1/4W
R301	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R302	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R304	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R305	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R308	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R358	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R360	QRE141J-224Y	CARBON RESISTOR	220K 1/4W
R361	QRE141J-105Y	CARBON RESISTOR	1.0M 1/4W
R362	QRE141J-224Y	CARBON RESISTOR	220K 1/4W
R364	QRE141J-333Y	CARBON RESISTOR	33K 1/4W
R365	QRE141J-102Y	CARBON RESISTOR	1.0K 1/4W
R368	QRE141J-271Y	CARBON RESISTOR	270 1/4W
R369	QRE141J-472Y	CARBON RESISTOR	4.7K 1/4W
R370	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R371	QRE141J-153Y	CARBON RESISTOR	15K 1/4W
R372	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R373	QRE141J-223Y	CARBON RESISTOR	22K 1/4W
R375	QRE141J-332Y	CARBON RESISTOR	3.3K 1/4W
R400	QRF051J-R47	UFR	0.47 5W
R403	QRE141J-471Y	CARBON RESISTOR	470 1/4W
R411	QRE141J-102Y	CARBON RESISTOR	1.0K 1/4W

Symbol No.	Part No.	Part Name	Description	
R412	QRE141J-102Y	CARBON RESISTOR	1.0K	1/4W
R413	QRE141J-750Y	CARBON RESISTOR	75	1/4W
R414	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R415	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R416	QRE141J-271Y	CARBON RESISTOR	270	1/4W
R417	QRE141J-271Y	CARBON RESISTOR	270	1/4W
R421	QRE141J-102Y	CARBON RESISTOR	1.0K	1/4W
R422	QRE141J-102Y	CARBON RESISTOR	1.0K	1/4W
R423	QRE141J-750Y	CARBON RESISTOR	75	1/4W
R424	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R425	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R431	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R432	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R433	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R434	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R502	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R503	QRE141J-102Y	CARBON RESISTOR	1.0K	1/4W
R504	QRE141J-332Y	CARBON RESISTOR	3.3K	1/4W
R505	QRE141J-332Y	CARBON RESISTOR	3.3K	1/4W
R506	QRE141J-471Y	CARBON RESISTOR	470	1/4W
R507	QRE141J-102Y	CARBON RESISTOR	1.0K	1/4W
R508	QRE141J-471Y	CARBON RESISTOR	470	1/4W
R510	QRE141J-332Y	CARBON RESISTOR	3.3K	1/4W
R511	QRE141J-332Y	CARBON RESISTOR	3.3K	1/4W
R512	QRE141J-471Y	CARBON RESISTOR	470	1/4W
R513	QRF051J-R47	UFR	0.47	5W
R540	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R541	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R542	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R543	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R544	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R545	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R546	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R548	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R549	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R551	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R552	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R553	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R554	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R555	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R556	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R557	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R600	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R601	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R602	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R603	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R610	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R611	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R612	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R613	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R620	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R621	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R622	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R623	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R630	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R631	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R632	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R639	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R640	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R641	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R642	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R649	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R650	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R651	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R652	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R659	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R660	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R661	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R662	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R669	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R670	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R671	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R672	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R679	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R680	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R681	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R682	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R689	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R700	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R701	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R702	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R703	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R704	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R705	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R706	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R707	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R708	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R709	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R710	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R711	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R712	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R715	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R716	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R717	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R720	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R721	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R722	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R723	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R724	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R725	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R726	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R727	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R728	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R729	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R730	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R731	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R732	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R733	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R734	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R735	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R736	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R737	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R738	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R739	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R740	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R741	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R742	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R744	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R745	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R746	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R747	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R750	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R751	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R752	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R753	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R754	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R755	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R756	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R757	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R758	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R759	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R760	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R761	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R762	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R763	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R764	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R765	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R766	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R767	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R768	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R769	QRE141J-101Y	CARBON RESISTOR	100	1/4W
R770	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R771	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R772	QRE141J-103Y	CARBON RESISTOR	10K	1/4W
R775	QRE141J-103Y	CARBON RESISTOR	10K	1/4W

Symbol No.	Part No.	Part Name	Description
R776	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R777	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R779	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R780	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R781	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R782	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R783	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R784	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R785	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R786	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R787	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R788	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R789	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R810	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R811	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R812	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R813	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R814	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R815	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R816	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R820	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R821	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R822	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R823	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R824	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R825	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R826	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R832	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R833	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R834	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R835	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R838	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R839	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R842	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R900	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R901	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R902	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R903	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R904	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R905	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R906	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R907	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R910	QRE141J-472Y	CARBON RESISTOR	4.7K 1/4W
R911	QRE141J-472Y	CARBON RESISTOR	4.7K 1/4W
R913	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R920	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R921	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R923	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R924	QRE141J-101Y	CARBON RESISTOR	100 1/4W
C1	QTMC1CM-337Z	E.CAPACITOR	
C2	QTMC1CM-337Z	E.CAPACITOR	
C3	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C4	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C5	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C6	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C7	QTMC1CM-337Z	E.CAPACITOR	
C8	QCBB1HK-102Y	CER.CAPACITOR-S	1000P 50V
C9	QCBB1HK-102Y	CER.CAPACITOR-S	1000P 50V
C205	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C206	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C300	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C301	QDC31HJ-101Z	C CAP	
C302	QDC31HJ-101Z	C CAP	
C305	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C306	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C307	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C308	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C309	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C310	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C311	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C312	QFV61HJ-334Z	MY CAP	0.33 50V
C313	QFV61HJ-334Z	MY CAP	0.33 50V

Symbol No.	Part No.	Part Name	Description
C320	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C321	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C340	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C341	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C342	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C360	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C361	QFN31HJ-102Z	MYLAR CAPCTR/CV	1000P 50V
C362	QFN31HJ-103Z	MY.CAPACITOR/CV	0.010 50V
C363	QFN31HJ-224Z	M.M.CAPACITOR	0.22 50V
C364	QFN31HJ-103Z	MY.CAPACITOR/CV	0.010 50V
C366	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C367	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C368	QTNC1HM-105Z	BE E CAP	
C369	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C370	QTMC1HM-475Z	E.CAPACITOR	
C400	QTMC1EM-107Z	E.CAPACITOR	
C401	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C403	QTMC1HM-106Z	E.CAPACITOR	
C405	QDC31HJ-101Z	C CAP	
C406	QDC31HJ-101Z	C CAP	
C407	QDC31HJ-101Z	C CAP	
C408	QDC31HJ-101Z	C CAP	
C410	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C420	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C421	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C422	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C430	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C450	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C500	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C501	QCF31HZ-103Z	CER.CAPACITOR	0.010 50V
C502	QCF31HZ-103Z	CER.CAPACITOR	0.010 50V
C507	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C510	QTMC1HM-105Z	E.CAPACITOR	
C511	QTMC1HM-105Z	E.CAPACITOR	
C512	QTMC1HM-106Z	E.CAPACITOR	
C513	QTMC1EM-107Z	E.CAPACITOR	
C514	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C520	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C530	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C600	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C601	QTMC1CM-337Z	E.CAPACITOR	
C603	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C604	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C605	QTMC1HM-105Z	E.CAPACITOR	
C606	QTMC1HM-105Z	E.CAPACITOR	
C607	QTMC1CM-337Z	E.CAPACITOR	
C608	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C700	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C701	QTMC1HM-105Z	E.CAPACITOR	
C702	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C703	QTMC1HM-105Z	E.CAPACITOR	
C705	QTMC1CM-337Z	E.CAPACITOR	
C710	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C717	QTMC1CM-337Z	E.CAPACITOR	
C718	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C719	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C720	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C721	QTMC1HM-105Z	E.CAPACITOR	
C722	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C723	QTMC1HM-105Z	E.CAPACITOR	
C727	QTMC1CM-337Z	E.CAPACITOR	
C728	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C729	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C730	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C731	QTMC1HM-105Z	E.CAPACITOR	
C732	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C733	QTMC1HM-105Z	E.CAPACITOR	
C735	QTMC1CM-337Z	E.CAPACITOR	
C737	QTMC1CM-337Z	E.CAPACITOR	
C738	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C739	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C747	QTMC1CM-337Z	E.CAPACITOR	
C748	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V

Symbol No.	Part No.	Part Name	Description	
C749	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047	50V
C750	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047	50V
C751	QTMC1HM-105Z	E.CAPACITOR		
C752	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047	50V
C753	QTMC1HM-105Z	E.CAPACITOR		
C755	QTMC1CM-337Z	E.CAPACITOR		
C757	QTMC1CM-337Z	E.CAPACITOR		
C758	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047	50V
C759	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047	50V
C760	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047	50V
C761	QTMC1HM-105Z	E.CAPACITOR		
C762	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047	50V
C763	QTMC1HM-105Z	E.CAPACITOR		
C767	QTMC1CM-337Z	E.CAPACITOR		
C768	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047	50V
C769	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047	50V
C770	QCZ0206-104Z	CER.CAPACITOR-S	0.10	
C771	QCZ0206-104Z	CER.CAPACITOR-S	0.10	
C780	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047	50V
C781	QTMC1HM-105Z	E.CAPACITOR		
C782	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047	50V
C783	QTMC1HM-105Z	E.CAPACITOR		
C800	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047	50V
C801	QTMC1CM-337Z	E.CAPACITOR		
C820	QCZ0206-104Z	CER.CAPACITOR-S	0.10	
C900	QCZ0206-104Z	CER.CAPACITOR-S	0.10	
C901	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047	50V
C910	QCZ0206-104Z	CER.CAPACITOR-S	0.10	
LC2	QQR1093-010Z	EMI FILTER		
LC3	QQR1093-010Z	EMI FILTER		
LC4	QQR1093-010Z	EMI FILTER		
LC202	QQR1093-007Z	EMI FILTER		
LC203	QQR1093-007Z	EMI FILTER		
LC401	QQR1093-007Z	EMI FILTER		
LC402	QQR1093-007Z	EMI FILTER		
LC432	QQR1093-005Z	EMI FILTER		
LC434	QQR1093-005Z	EMI FILTER		
LC481	QQR1093-007Z	EMI FILTER		
LC482	QQR1093-007Z	EMI FILTER		
LC505	QQR1093-007Z	EMI FILTER		
LC506	QQR1093-007Z	EMI FILTER		
LC507	QQR1093-007Z	EMI FILTER		
LC508	QQR1093-007Z	EMI FILTER		
LC510	QQR1093-007Z	EMI FILTER		
LC512	QQR1093-007Z	EMI FILTER		
LC513	QQR1093-007Z	EMI FILTER		
LC514	QQR1093-007Z	EMI FILTER		
LC515	QQR1093-005Z	EMI FILTER		
LC516	QQR1093-005Z	EMI FILTER		
LC517	QQR1093-007Z	EMI FILTER		
LC518	QQR1093-007Z	EMI FILTER		
LC519	QQR1093-007Z	EMI FILTER		
LC521	QQR1093-007Z	EMI FILTER		
LC522	QQR1093-007Z	EMI FILTER		
LC524	QQR1093-007Z	EMI FILTER		
LC525	QQR1093-007Z	EMI FILTER		
LC526	QQR1093-007Z	EMI FILTER		
LC527	QQR1093-007Z	EMI FILTER		
LC528	QQR1093-007Z	EMI FILTER		
LC601	QQR1093-007Z	EMI FILTER		
LC602	QQR1093-007Z	EMI FILTER		
LC605	QQR1093-007Z	EMI FILTER		
LC606	QQR1093-007Z	EMI FILTER		
LC607	QQR1093-007Z	EMI FILTER		
LC608	QQR1093-007Z	EMI FILTER		
LC711	QQR1093-007Z	EMI FILTER		
LC712	QQR1093-007Z	EMI FILTER		
LC714	QQR1093-007Z	EMI FILTER		
LC715	QQR1093-007Z	EMI FILTER		
LC716	QQR1093-007Z	EMI FILTER		
LC717	QQR1093-007Z	EMI FILTER		
LC721	QQR1093-007Z	EMI FILTER		
LC722	QQR1093-007Z	EMI FILTER		
LC724	QQR1093-007Z	EMI FILTER		
LC725	QQR1093-007Z	EMI FILTER		
LC726	QQR1093-007Z	EMI FILTER		
LC727	QQR1093-007Z	EMI FILTER		
LC731	QQR1093-007Z	EMI FILTER		
LC732	QQR1093-007Z	EMI FILTER		
LC734	QQR1093-007Z	EMI FILTER		
LC735	QQR1093-007Z	EMI FILTER		
LC736	QQR1093-007Z	EMI FILTER		
LC737	QQR1093-007Z	EMI FILTER		
LC741	QQR1093-007Z	EMI FILTER		
LC742	QQR1093-007Z	EMI FILTER		
LC744	QQR1093-007Z	EMI FILTER		
LC745	QQR1093-007Z	EMI FILTER		
LC746	QQR1093-007Z	EMI FILTER		
LC747	QQR1093-007Z	EMI FILTER		
LC751	QQR1093-007Z	EMI FILTER		
LC752	QQR1093-007Z	EMI FILTER		
LC754	QQR1093-007Z	EMI FILTER		
LC755	QQR1093-007Z	EMI FILTER		
LC756	QQR1093-007Z	EMI FILTER		
LC757	QQR1093-007Z	EMI FILTER		
LC761	QQR1093-007Z	EMI FILTER		
LC762	QQR1093-007Z	EMI FILTER		
LC764	QQR1093-007Z	EMI FILTER		
LC765	QQR1093-007Z	EMI FILTER		
LC766	QQR1093-007Z	EMI FILTER		
LC767	QQR1093-007Z	EMI FILTER		
LC805	QQR1093-007Z	EMI FILTER		
LC806	QQR1093-007Z	EMI FILTER		
LC807	QQR1093-007Z	EMI FILTER		
LC808	QQR1093-007Z	EMI FILTER		
LC809	QQR1093-007Z	EMI FILTER		
LC810	QQR1093-007Z	EMI FILTER		
LC811	QQR1093-007Z	EMI FILTER		
LC812	QQR1093-007Z	EMI FILTER		
LC813	QQR1093-007Z	EMI FILTER		
LC814	QQR1093-007Z	EMI FILTER		
LC815	QQR1093-007Z	EMI FILTER		
LC816	QQR1093-007Z	EMI FILTER		
LC817	QQR1093-007Z	EMI FILTER		
LC818	QQR1093-007Z	EMI FILTER		
LC819	QQR1093-007Z	EMI FILTER		
LC820	QQR1093-007Z	EMI FILTER		
LC821	QQR1093-007Z	EMI FILTER		
LC822	QQR1093-007Z	EMI FILTER		
LC823	QQR1093-007Z	EMI FILTER		
LC828	QQR1093-007Z	EMI FILTER		
LC921	QQR1093-007Z	EMI FILTER		
LC922	QQR1093-007Z	EMI FILTER		
LC923	QQR1093-007Z	EMI FILTER		
LC924	QQR1093-007Z	EMI FILTER		
X300	QAX0286-001	CER.RESONATOR		
F120	QMFZ022-5R0-J1	FUSE		
F400	SF119U-1	FUSE		
F500	SF119U-1	FUSE		
F900	QMFZ022-1R0-J1	FUSE		
RY110	QSK0044-004	RELAY		
S300	QSW0341-001	SLIDE SWITCH		
S301	QSW0341-001	SLIDE SWITCH		
CN110	QGA3901C1-06	CONNECTOR		
CN120	QGA2501C2-02Z	CONNECTOR		
CN121	QGA2501C2-02Z	CONNECTOR		

Symbol No.	Part No.	Part Name	Description
CN205	QGA2501C2-06Z	CONNECTOR	
CN400	QGA3901C1-02	CONNECTOR	
CN420	QGA2501C2-03Z	CONNECTOR	
CN421	QGA2501C2-03Z	CONNECTOR	
CN430	QGA2001C1-04	CONNECTOR	
CN460	QGA2501C2-03Z	CONNECTOR	
CN480	QGA3901C1-02	CONNECTOR	
CN500	QGF1003C1-30	CONNECTOR	
CN600	QGA2001C1-10	CONNECTOR	
CN710	QGA2004C1-14S	DF CONNECTOR	
CN720	QGA2004C1-14S	DF CONNECTOR	
CN730	QGA2004C1-14S	DF CONNECTOR	
CN740	QGA2004C1-14S	DF CONNECTOR	
CN750	QGA2004C1-14S	DF CONNECTOR	
CN760	QGA2004C1-14S	DF CONNECTOR	
CN800	QGA2004C1-28S	CONNECTOR	
CN900	QGA2004C1-26S	CAM	
TP1	QNZ0352-001Z	TEST POINT	
TP2	QNZ0352-001Z	TEST POINT	
TP3	QNZ0352-001Z	TEST POINT	
TP4	QNZ0352-001Z	TEST POINT	
TP5	QNZ0352-001Z	TEST POINT	
TP6	QNZ0352-001Z	TEST POINT	
BT300	SSV2413-001	LITHIUM BATTERY	
HS400	SSV3225	HEAT SINK	
TB2	SQMX002-001Z	TERMINAL	
TB3	SQMX002-001Z	TERMINAL	
TB4	SQMX002-001Z	TERMINAL	

5.2 CONNECTOR BOARD ASSEMBLY PARTS LIST 02

02☐☐☐☐☐☐

Symbol No.	Part No.	Part Name	Description
LC1	QQR1093-010Z	EMI FILTER	
LC2	QQR1093-010Z	EMI FILTER	
LC3	QQR1093-010Z	EMI FILTER	
LC4	QQR1093-010Z	EMI FILTER	
LC5	QQR1093-010Z	EMI FILTER	
LC6	QQR1093-010Z	EMI FILTER	
LC7	QQR1093-010Z	EMI FILTER	
LC8	QQR1093-010Z	EMI FILTER	
CN1	SSV2801	CONNECTOR	
CN4	SSV2801	CONNECTOR	
CN7	QGA3901C1-04	CONNECTOR	
CN8	QGA3901C1-04	CONNECTOR	
CN120	QGA2501C2-02Z	CONNECTOR	
CN123	QGA2501C2-02Z	CONNECTOR	
CN124	QGA2501C2-02Z	CONNECTOR	
TB1	SQMX002-001Z	TERMINAL	
TB2	SQMX002-001Z	TERMINAL	

5.3 RS232C BOARD ASSEMBLY PARTS LIST 03

03☐☐☐☐☐☐

Symbol No.	Part No.	Part Name	Description
CN231	QGA2501C1-08	CONNECTOR	
CN232	QNZ0478-001	9P CONNECTOR	

5.4 FAN CN BOARD ASSEMBLY PARTS LIST 04

04☐☐☐☐☐☐

Symbol No.	Part No.	Part Name	Description
CN121	QGA2501C2-02Z	CONNECTOR	
CN122	QGA2501C2-02Z	CONNECTOR	
CN123	QGA2501C2-02Z	CONNECTOR	
CN124	QGA2501C2-02Z	CONNECTOR	

5.5 SCSI BOARD ASSEMBLY PARTS LIST 05

05☐☐☐☐☐☐

Symbol No.	Part No.	Part Name	Description
IC2	HA16103PJ	I.C(MONO-ANA)	
IC3	PLSS1720	EP-ROM	M27C512-15F1
IC4	MBM29F200BA-90	I.C.	
IC5	TC551001BFL-70L	IC	TOSHIBA
IC7	MC74HC04AN	I.C(DIGI-MOS)	MOTOROLA
IC8	MC74HC125AN	I.C(DIGI-MOS)	
IC9	ICL232CPE	I.C.(MONO-ANA)	INTERSIL
IC10	ICL232CPE	I.C.(MONO-ANA)	INTERSIL
IC11	MC74HC04AN	I.C(DIGI-MOS)	MOTOROLA
IC12	TC74HC20AP	I.C(DIGI-MOS)	TOSHIBA
IC13	MC74HCU04AN	M I.C.	
D2	HZS6C2L-T2	ZENER DIODE	HITACHI
D3	HZS6C2L-T2	ZENER DIODE	HITACHI
D4	HZS6C2L-T2	ZENER DIODE	HITACHI
D6	HZ3B2	ZENER DIODE	HITACHI
D7	ERA82-004-T1	SI.DIODE	
D8	MA700A-T2	DIODE	MATSUSHITA
D9	ERA82-004-T1	SI.DIODE	
D10	SB140L-6395	SI DIODE	
R1	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R2	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R3	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R7	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R8	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R9	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R10	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R11	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R12	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R13	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R14	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R15	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R16	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R17	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R18	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R19	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R20	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R21	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R22	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R23	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R25	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R26	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R27	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R28	QRE141J-181Y	CARBON RESISTOR	180 1/4W
R31	QRE141J-105Y	CARBON RESISTOR	1.0M 1/4W
R32	QRE141J-181Y	CARBON RESISTOR	180 1/4W
R33	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R34	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R35	QRE141J-181Y	CARBON RESISTOR	180 1/4W
R41	QRE141J-105Y	CARBON RESISTOR	1.0M 1/4W
R42	QRE141J-224Y	CARBON RESISTOR	220K 1/4W
R45	QRE141J-331Y	CR	330 1/4W
R46	QRE141J-331Y	CR	330 1/4W
R47	QRE141J-331Y	CR	330 1/4W
R48	QRE141J-331Y	CR	330 1/4W
R49	QRE141J-331Y	CR	330 1/4W
R50	QRE141J-331Y	CR	330 1/4W
R51	QRE141J-331Y	CR	330 1/4W
R52	QRE141J-331Y	CR	330 1/4W
R53	QRE141J-331Y	CR	330 1/4W
R54	QRE141J-331Y	CR	330 1/4W
R55	QRE141J-331Y	CR	330 1/4W
R56	QRE141J-331Y	CR	330 1/4W
C1	QETC1EM-476Z	E:CAPACITOR	47 25V
C2	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C5	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C6	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C7	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C8	QETC1EM-226Z	AL.E.CAPACITOR	22 25V
C9	QETC1EM-226Z	AL.E.CAPACITOR	22 25V
C10	QETC1EM-226Z	AL.E.CAPACITOR	22 25V
C11	QETC1EM-226Z	AL.E.CAPACITOR	22 25V
C12	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C13	QETC1EM-226Z	AL.E.CAPACITOR	22 25V
C14	QETC1EM-226Z	AL.E.CAPACITOR	22 25V
C15	QETC1EM-226Z	AL.E.CAPACITOR	22 25V
C16	QETC1EM-226Z	AL.E.CAPACITOR	22 25V
C21	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C23	QDC31HJ-330Z	CER.CAPACITOR	
C24	QDC31HJ-330Z	CER.CAPACITOR	
C25	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C26	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C27	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C28	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C29	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C30	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C31	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C35	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C36	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C37	QETC1EM-476Z	E.CAPACITOR	47 25V
C38	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C39	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C40	QDC31HJ-220Z	C CAP	
C41	QDC31HJ-220Z	C CAP	
C42	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C45	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C46	QCB31HK-102Z	C CAP	1000P 50V
C47	QFN31HJ-103Z	MY.CAPACITOR/CV	0.010 50V
C48	QFN31HJ-224Z	M.M.CAPACITOR	0.22 50V
C49	QCB31HK-102Z	C CAP	1000P 50V
C50	QCB31HK-102Z	C CAP	1000P 50V
C51	QCB31HK-102Z	C CAP	1000P 50V
C52	QFN31HJ-103Z	MY.CAPACITOR/CV	0.010 50V
LC1	QQR1093-010Z	EMI FILTER	
LC2	QQR1093-010Z	EMI FILTER	
LC3	QQR1093-010Z	EMI FILTER	
LC4	QQR1093-010Z	EMI FILTER	
LC5	QQR1093-010Z	EMI FILTER	
LC6	QQR1093-010Z	EMI FILTER	
LC7	QQR1093-010Z	EMI FILTER	
LC8	QQR1093-010Z	EMI FILTER	
LC9	QQR1093-010Z	EMI FILTER	
LC10	QQR1093-010Z	EMI FILTER	
LC11	QQR1093-010Z	EMI FILTER	
LC12	QQR1093-010Z	EMI FILTER	
LC13	QQR1093-010Z	EMI FILTER	
LC14	QQR1093-010Z	EMI FILTER	
LC15	QQR1093-010Z	EMI FILTER	
LC16	QQR1093-010Z	EMI FILTER	
LC17	QQR1093-010Z	EMI FILTER	
LC18	QQR1093-010Z	EMI FILTER	
LC19	QQR1093-010Z	EMI FILTER	
LC20	QQR1093-010Z	EMI FILTER	
LC21	QQR1093-010Z	EMI FILTER	
LC22	QQR1093-010Z	EMI FILTER	
LC23	QQR1093-010Z	EMI FILTER	
LC24	QQR1093-010Z	EMI FILTER	
LC25	QQR1093-010Z	EMI FILTER	
LC26	QQR1093-010Z	EMI FILTER	
LC27	QQR1093-010Z	EMI FILTER	
LC28	QQR1093-010Z	EMI FILTER	
LC29	QQR1093-010Z	EMI FILTER	
LC30	QQR1093-010Z	EMI FILTER	
LC31	QQR1093-010Z	EMI FILTER	
LC32	QQR1093-010Z	EMI FILTER	
X1	QAX0093-001	CRYSTAL	
X2	QAX0025-002Z	CRYSTAL	
F2	QMFZ022-1R0-J1	FUSE	

Symbol No.	Part No.	Part Name	Description
CN1	SC42462-114	CONNECTOR	
CN13	QGA2501C2-04Z	CONNECTOR	
CN205	QGA2501C2-06Z	CONNECTOR	
CN231	QGA2501C1-08	CONNECTOR	
CN240	SC42462-150	CONNECTOR	
TP1	QNZ0352-001Z	TEST POINT	
TP2	QNZ0352-001Z	TEST POINT	
TP3	QNZ0352-001Z	TEST POINT	
TP4	QNZ0352-001Z	TEST POINT	
BT1	SSV2413-002	LITHIUM BATTERY	

5.6 DISPLAY BOARD ASSEMBLY PARTS LIST 06

06

Symbol No.	Part No.	Part Name	Description
IC1	SN74HC245N	I.C(DIGI-MOS)	TEXAS
IC2	SN74LS125AN	I.C.(DIGI-OTHER	
D1	ERA15-02-T1	DIODE	FIJI ELECTRIC
D2	ERA15-02-T1	DIODE	FIJI ELECTRIC
D3	ERA15-02-T1	DIODE	FIJI ELECTRIC
D4	ERA15-02-T1	DIODE	FIJI ELECTRIC
D5	ERA15-02-T1	DIODE	FIJI ELECTRIC
D6	ERA15-02-T1	DIODE	FIJI ELECTRIC
D7	ERA15-02-T1	DIODE	FIJI ELECTRIC
D8	ERA15-02-T1	DIODE	FIJI ELECTRIC
D9	ERA15-02-T1	DIODE	FIJI ELECTRIC
D10	ERA15-02-T1	DIODE	FIJI ELECTRIC
D11	ERA15-02-T1	DIODE	FIJI ELECTRIC
D12	ERA15-02-T1	DIODE	FIJI ELECTRIC
D13	ERA15-02-T1	DIODE	FIJI ELECTRIC
D14	ERA15-02-T1	DIODE	FIJI ELECTRIC
LD1	SLR-56MG3F	L.E.D.	
LD2	RCM2060M-B	L.C.DISPLAY	
R1	QRE141J-122Y	CARBON RESISTOR	1.2K 1/4W
R2	QRE141J-153Y	CARBON RESISTOR	15K 1/4W
R3	QRE141J-271Y	CARBON RESISTOR	270 1/4W
C1	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C2	QCZ0206-104Z	CER.CAPACITOR-S	0.10
C3	QCZ0206-104Z	CER.CAPACITOR-S	0.10
S1	QSW0894-001	PUSH SWITCH	
S2	QSW0894-001	PUSH SWITCH	
S3	QSW0894-001	PUSH SWITCH	
S4	QSW0894-001	PUSH SWITCH	
S5	QSW0894-001	PUSH SWITCH	
S6	QSW0894-001	PUSH SWITCH	
S7	QSW0894-001	PUSH SWITCH	
S8	QSW0894-001	PUSH SWITCH	
S9	QSW0894-001	PUSH SWITCH	
S10	QSW0894-001	PUSH SWITCH	
S11	QSW0894-001	PUSH SWITCH	
S12	QSW0192-001Z	PUSH SWITCH	
S13	QSW0192-001Z	PUSH SWITCH	
S14	QSW0192-001Z	PUSH SWITCH	
CN2	QGG2501M2-16	POST HAEDER	
CN900	QGA2004F1-26	POST HEADER	

5.7 U/D MOTOR BOARD ASSEMBLY PARTS LIST 07

07□□□□□□

Symbol No.	Part No.	Part Name	Description
R460	QRG01GJ-101	OMR	100 1W
C460	QCZ9016-103	CER.CAPACITOR	0.010
C461	QCZ9016-103	CER.CAPACITOR	0.010
C462	QCZ9016-103	CER.CAPACITOR	0.010
CN460	QGA3901C1-02	CONNECTOR	

5.8 MAIL CN BOARD ASSEMBLY PARTS LIST 08

08□□□□□□

Symbol No.	Part No.	Part Name	Description
CN1	QGA2001C1-10	CONNECTOR	
CN2	QGA2001C1-10	CONNECTOR	

5.9 ROT SENSOR BOARD ASSEMBLY PARTS LIST 09

09□□□□□□

Symbol No.	Part No.	Part Name	Description
IC431	HEDS-9700K50	ROTARY SENSOR	
CN431	QGA2001F1-04	CONNECTOR	

5.10 MG SEN1 BOARD ASSEMBLY PARTS LIST 10

10□□□□□□

Symbol No.	Part No.	Part Name	Description
CN1	SC42462-014	CONNECTOR	
CN462	QGA2501C2-03Z	CONNECTOR	

5.11 MG SEN2 BOARD ASSEMBLY PARTS LIST 11

11□□□□□□

Symbol No.	Part No.	Part Name	Description
CN1	SC42462-014	CONNECTOR	
CN462	QGA2501C2-03Z	CONNECTOR	

5.12 MG SEN3 BOARD ASSEMBLY PARTS LIST 12

12□□□□□□

Symbol No.	Part No.	Part Name	Description
CN1	SC42462-014	CONNECTOR	
CN462	QGA2501C2-03Z	CONNECTOR	

5.13 MG SEN4 BOARD ASSEMBLY PARTS LIST 13

13☐☐☐☐☐☐

Symbol No.	Part No.	Part Name	Description
CN1	SC42462-014	CONNECTOR	
CN462	QGA2501C2-03Z	CONNECTOR	

5.14 MG SEN5 BOARD ASSEMBLY PARTS LIST 14

14☐☐☐☐☐☐

Symbol No.	Part No.	Part Name	Description
CN1	SC42462-014	CONNECTOR	
CN462	QGA2501C2-03Z	CONNECTOR	

5.15 MG SEN6 BOARD ASSEMBLY PARTS LIST 15

15☐☐☐☐☐☐

Symbol No.	Part No.	Part Name	Description
CN1	SC42462-014	CONNECTOR	
CN462	QGA2501C2-03Z	CONNECTOR	

5.16 MG SEN7 BOARD ASSEMBLY PARTS LIST 16

16☐☐☐☐☐☐

Symbol No.	Part No.	Part Name	Description
CN1	SC42462-014	CONNECTOR	
CN462	QGA2501C2-03Z	CONNECTOR	

5.17 MG SEN8 BOARD ASSEMBLY PARTS LIST 17

17☐☐☐☐☐☐

Symbol No.	Part No.	Part Name	Description
CN1	SC42462-014	CONNECTOR	
CN462	QGA2501C2-03Z	CONNECTOR	

5.18 MG SEN9 BOARD ASSEMBLY PARTS LIST 18

18☐☐☐☐☐☐

Symbol No.	Part No.	Part Name	Description
CN1	SC42462-014	CONNECTOR	
CN462	QGA2501C2-03Z	CONNECTOR	

5.19 MG SEN10 BOARD ASSEMBLY PARTS LIST 19

19☐☐☐☐☐☐

Symbol No.	Part No.	Part Name	Description
CN1	SC42462-014	CONNECTOR	
CN462	QGA2501C2-03Z	CONNECTOR	

5.20 MG SEN11 BOARD ASSEMBLY PARTS LIST 20

20☐☐☐☐☐☐

Symbol No.	Part No.	Part Name	Description
CN1	SC42462-014	CONNECTOR	
CN462	QGA2501C2-03Z	CONNECTOR	

5.21 MG SEN12 BOARD ASSEMBLY PARTS LIST 21

21☐☐☐☐☐☐

Symbol No.	Part No.	Part Name	Description
CN1	SC42462-014	CONNECTOR	
CN462	QGA2501C2-03Z	CONNECTOR	

5.22 CARRIER BOARD ASSEMBLY PARTS LIST 22

22☐☐☐☐☐☐

Symbol No.	Part No.	Part Name	Description
IC920	ST93C46CB1	I.C.	
Q801	2SC3311A/RS/-T	SI.TRANSISTOR	MATSUSHITA
D801	HZS5CLL-T2	BARICAP DIODE	HITACHI
D921	ERA82-004-T1	SI.DIODE	
LD21	SEL6210R-T	L.E.D.	
LD22	SEL6410G-T	L.E.D.	
LD30	SEL6210R-T	L.E.D.	
LD40	SEL6410G-T	L.E.D.	
LD41	SEL6210R-T	L.E.D.	
LD50	SEL6410G-T	L.E.D.	
LD51	SEL6210R-T	L.E.D.	
LD52	SEL6410G-T	L.E.D.	
LD60	SEL6210R-T	L.E.D.	
LD61	SEL6410G-T	L.E.D.	
LD70	SEL6410G-T	L.E.D.	
LD71	SEL6210R-T	L.E.D.	
LD80	SEL6410G-T	L.E.D.	
R211	QRE141J-821Y	CARBON RESISTOR	820 1/4W
R212	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R221	QRE141J-821Y	CARBON RESISTOR	820 1/4W
R222	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R301	QRE141J-821Y	CARBON RESISTOR	820 1/4W
R302	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R401	QRE141J-821Y	CARBON RESISTOR	820 1/4W
R402	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R403	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R411	QRE141J-821Y	CARBON RESISTOR	820 1/4W
R412	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R413	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R501	QRE141J-821Y	CARBON RESISTOR	820 1/4W
R502	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R511	QRE141J-821Y	CARBON RESISTOR	820 1/4W
R512	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R521	QRE141J-821Y	CARBON RESISTOR	820 1/4W
R522	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R601	QRE141J-222Y	CARBON RESISTOR	2.2K 1/4W
R611	QRE141J-222Y	CARBON RESISTOR	2.2K 1/4W
R701	QRE141J-821Y	CARBON RESISTOR	820 1/4W
R702	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R711	QRE141J-821Y	CARBON RESISTOR	820 1/4W
R712	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R801	QRE141J-102Y	CARBON RESISTOR	1.0K 1/4W
R802	QRE141J-221Y	CARBON RESISTOR	220 1/4W
R803	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R804	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R805	QRE141J-102Y	CARBON RESISTOR	1.0K 1/4W
R901	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R911	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R921	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R922	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R923	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R924	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R925	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R926	QRE141J-101Y	CARBON RESISTOR	100 1/4W
R927	QRE141J-101Y	CARBON RESISTOR	100 1/4W
C202	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C211	QDYB1CM-103Y	C CAP	
C221	QDYB1CM-103Y	C CAP	
C222	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C301	QDYB1CM-103Y	C CAP	
C302	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C401	QCBB1HK-102Y	CER.CAPACITOR-S	1000P 50V
C402	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C411	QCBB1HK-102Y	CER.CAPACITOR-S	1000P 50V
C501	QDYB1CM-103Y	C CAP	

Symbol No.	Part No.	Part Name	Description
C502	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C511	QDYB1CM-103Y	C CAP	
C521	QDYB1CM-103Y	C CAP	
C601	QDYB1CM-103Y	C CAP	
C611	QDYB1CM-103Y	C CAP	
C701	QDYB1CM-103Y	C CAP	
C702	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C711	QDYB1CM-103Y	C CAP	
C712	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C801	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C802	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C901	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C902	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C903	QER61CM-107Z	E.CAPACITOR	100 16V
C911	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C912	QER60JM-107Z	AL.E.CAPACITOR	100 6.3V
C921	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
CN19	QGF1004F1-30	CONNECTOR	
CN20	QGA2001F1-03	CONNECTOR	
CN22	QGA2001F1-03	CONNECTOR	
CN30	QGA2501F1-03	CONNECTOR	
CN40	QGA2001F1-04	CONNECTOR	
CN50	QGA2001F1-05	CONNECTOR	
CN55	QGA2001C1-08	CONNECTOR	
CN70	QGA2501F1-03	CONNECTOR	
CN71	QGA2501F1-03	CONNECTOR	
CN80	QGA2501F1-02	CONNECTOR	
CN83	QGA2001F1-02	CONNECTOR	
CN90	QGA2501F1-02	CONNECTOR	
CN91	QGA2501F1-02	CONNECTOR	
TP80	QNZ0352-001Z	TEST POINT	
TP91	QNZ0352-001Z	TEST POINT	

5.23 R CATCH BOARD ASSEMBLY PARTS LIST 23

23□□□□□□

Symbol No.	Part No.	Part Name	Description
PC21	GP1A53E	I.C(PH.INTER)	
R213	QRE141J-391Y	CARBON RESISTOR	390 1/4W
R214	QRE141J-271Y	CARBON RESISTOR	270 1/4W
CN20	QGA2001F1-03	CONNECTOR	

5.24 L CATCH BOARD ASSEMBLY PARTS LIST 24

24□□□□□□

Symbol No.	Part No.	Part Name	Description
PC22	GP1A53E	I.C(PH.INTER)	
R223	QRE141J-391Y	CARBON RESISTOR	390 1/4W
R224	QRE141J-271Y	CARBON RESISTOR	270 1/4W
CN22	QGA2001F1-03	CONNECTOR	

5.25 LOADIG SEN BOARD ASSEMBLY PARTS LIST 25

25□□□□□□

Symbol No.	Part No.	Part Name	Description
PC40	GP1A33R	I.C(PH.INTER.)	
R403	QRE141J-101Y	CARBON RESISTOR	100 1/4W
CN40	QGA2001C1-04	CONNECTOR	

5.26 TRAY LOCK BOARD ASSEMBLY PARTS LIST 26

26☐☐☐☐☐☐

Symbol No.	Part No.	Part Name	Description
PC50	GP1A53E	I.C(PH.INTER)	
PC51	GP1A53E	I.C(PH.INTER)	
PC52	GP1A53E	I.C(PH.INTER)	
R503	QRE141J-391Y	CARBON RESISTOR	390 1/4W
R504	QRE141J-271Y	CARBON RESISTOR	270 1/4W
R513	QRE141J-391Y	CARBON RESISTOR	390 1/4W
R514	QRE141J-271Y	CARBON RESISTOR	270 1/4W
R523	QRE141J-391Y	CARBON RESISTOR	390 1/4W
R524	QRE141J-271Y	CARBON RESISTOR	270 1/4W
CN50	QGA2001F1-05	CONNECTOR	

5.27 LANE SEN BOARD ASSEMBLY PARTS LIST 27

27☐☐☐☐☐☐

Symbol No.	Part No.	Part Name	Description
PC30	GP1A53E	I.C(PH.INTER)	
R303	QRE141J-391Y	CARBON RESISTOR	390 1/4W
R304	QRE141J-271Y	CARBON RESISTOR	270 1/4W
CN30	QGA2501F1-03	CONNECTOR	

5.28 L ADD SEN BOARD ASSEMBLY PARTS LIST 28

28☐☐☐☐☐☐

Symbol No.	Part No.	Part Name	Description
PC70	GP1A53E	I.C(PH.INTER)	
R703	QRE141J-391Y	CARBON RESISTOR	390 1/4W
R704	QRE141J-271Y	CARBON RESISTOR	270 1/4W
CN70	QGA2501F1-03	CONNECTOR	

5.29 R ADD SEN BOARD ASSEMBLY PARTS LIST 29

29☐☐☐☐☐☐

Symbol No.	Part No.	Part Name	Description
PC71	GP1A53E	I.C(PH.INTER)	
R713	QRE141J-391Y	CARBON RESISTOR	390 1/4W
R714	QRE141J-271Y	CARBON RESISTOR	270 1/4W
CN71	QGA2501F1-03	CONNECTOR	

5.30 DISC SEN R BOARD ASSEMBLY PARTS LIST 30

30☐☐☐☐☐☐

Symbol No.	Part No.	Part Name	Description
PC80	PT381F	PH TRANSISTOR	
PC80	SC43656-015	LED SPACER	
CN80	QGA2501F1-02	CONNECTOR	

5.31 DISC SEN T BOARD ASSEMBLY PARTS LIST 31

31☐☐☐☐☐☐

Symbol No.	Part No.	Part Name	Description
R805	QRE141J-391Y	CARBON RESISTOR	390 1/4W
CN83	QGA2001F1-02	CONNECTOR	
PD80	GL381	L.E.D.	
PD80	SC43656-015	LED SPACER	

5.32 MAIL BOARD ASSEMBLY PARTS LIST 33

33☐☐☐☐☐☐

Symbol No.	Part No.	Part Name	Description
Q1	2SC3311A/RS/	SI.TRANSISTOR	
Q2	2SC3311A/RS/	SI.TRANSISTOR	
D1	HZS5CLL-T2	BARICAP DIODE	HITACHI
D2	HZS5CLL-T2	BARICAP DIODE	HITACHI
LD1	GL381	L.E.D.	
LD1	SC43656-015	LED SPACER	
LD2	GL381	L.E.D.	
LD2	SC43656-015	LED SPACER	
R2	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R3	QRE141J-391Y	CARBON RESISTOR	390 1/4W
R4	QRE141J-391Y	CARBON RESISTOR	390 1/4W
R5	QRE141J-221Y	CARBON RESISTOR	220 1/4W
R6	QRE141J-221Y	CARBON RESISTOR	220 1/4W
R7	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R8	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R9	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R10	QRE141J-103Y	CARBON RESISTOR	10K 1/4W
R11	QRE141J-102Y	CARBON RESISTOR	1.0K 1/4W
R12	QRE141J-102Y	CARBON RESISTOR	1.0K 1/4W
C1	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C3	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C4	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C5	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
CN1	QGA2001F1-10	CONNECTOR	
CN2	QGA2005F1-03	CONNECTOR	
CN3	QGA2501F1-02	CONNECTOR	
CN4	QGA2501F1-04	CONNECTOR	JVC
CN6	QGA2501F1-03	CONNECTOR	

5.33 SENSOR BOARD ASSEMBLY PARTS LIST 34

34☐☐☐☐☐☐

Symbol No.	Part No.	Part Name	Description
C1	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
C2	QCFB1HZ-473Y	CER.CAPACITOR-S	0.047 50V
CN41	QGA2501F1-04	CONNECTOR	JVC
PT1	PT381F	PH TRANSISTOR	
PT1	SC43656-015	LED SPACER	
PT2	PT381F	PH TRANSISTOR	
PT2	SC43656-015	LED SPACER	

5.34 POSI IN BOARD ASSEMBLY PARTS LIST 35

35☐☐☐☐☐☐

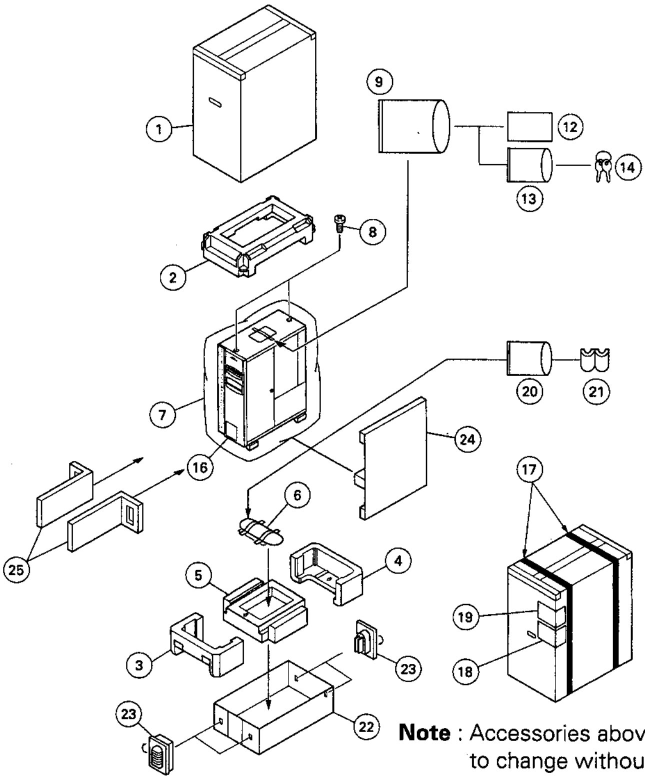
Symbol No.	Part No.	Part Name	Description
PC61	GP1A53E	I.C(PH.INTER)	
R61	QRE141J-271Y	CARBON RESISTOR	270 1/4W
R62	QRE141J-391Y	CARBON RESISTOR	390 1/4W
CN6	QGA2501F1-03	CONNECTOR	

SECTION 6
PACKING

6.1 MC-8200U

6.1.1 PACKING DIAGRAM M8

- ● Factory setting
- ①On the CHASSIS board
  - S300 - - - - - 1
  - S301 - - - - - 1
- ③Software setting
  - SCSI-ID of main unit - - - 0
  - Error history - - - - - - - - - - Clear



Note : Accessories above are subject to change without notice.

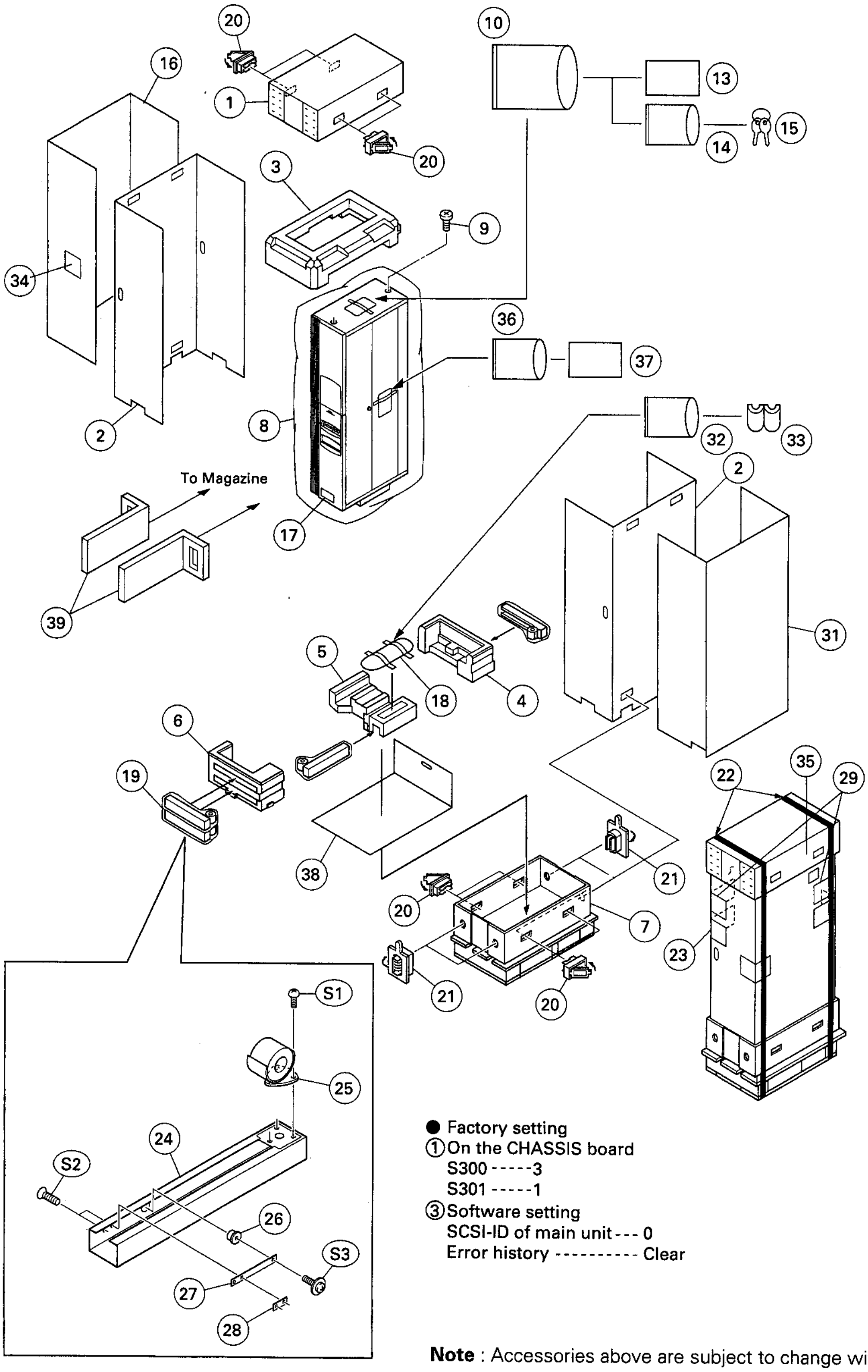
6.1.2 PACKING ASSEMBLY PARTS LIST M8

M8MM□□□□

Symbol No.		Part No.	Part Name	Description
	1	SS22990-001	PACKING CASE	
	2	SS22926-001	CUSHION(T)	
	3	SS22927-001	CUSHION(F)	
	4	SS22929-001	CUSHION(R)	
	5	SS22928-001	CUSHION(C)	
⚠	6	QMP1C08-250	POWER CORD	
⚠	6	QMPL018-250-R	POWER CORD	
	7	SS35453-003	POLY BAG	
	8	SS412031-001	BLIND BOLT	x2
	9	QPA02503505	POLY BAG	
	10	—	—	
	11	—	—	
⚠	12	SS961556-002	INSTRUCTION	
	13	QPGA005-00705	POLY BAG	
	14	SS47919-00B	KEY ASSEMBLY	
	15	—	—	
	16	SS412715-001	W.LABEL	
	17	SSV2250	BAND	
	18	SS35764-001	PACKING LABEL	x2
	19	SS35480	PACKING LABEL	x2
	20	PRD30413-01-04	AIR CAP BAG	
	21	QQR0675-001	ACTIVE FILTER	x2
	22	SS23013-001	BOTTOM CASE	
	23	SS3282-001	JOINT	x4
	24	SS35887-001	CUSHION	
	25	SS35824-00A	PROTECTOR	x4 Corrugated paper/Polyethylene bag (inserted in the magazine)

6.2 MC-8600U

6.2.1 PACKING DIAGRAM M 9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39
31
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19
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S1
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24
S2
26
S3
27
28

● Factory setting

①On the CHASSIS board

S300 - - - - - 3

S301 - - - - - 1

③Software setting

SCSI-ID of main unit - - - 0

Error history - - - - - - - - - - Clear

Note : Accessories above are subject to change without notice.

6.1.2 PACKING ASSEMBLY PARTS LIST M 9

M 9 M M ☐ ☐ ☐ ☐

Symbol No.	Part No.	Part Name	Description
1	SS22991-001	PACKING CASE	
2	SS22992-001	PACKING CASE(SIDE)	x2
3	SS23009-001	CUSHION(T)	
4	SS23012-001	CUSHION(R)	
5	SS23011-001	CUSHION(C)	
6	SS23010-001	CUSHION(F)	
7	SS22993-001	BOTTOM CASE	
8	SS35453-004	POLY BAG	
9	SS412031-001	BLIND BOLT	x2
10	QPA02503505	POLY BAG	
11	—	—	
12	—	—	
⚠ 13	SS961556	INSTRUCTION	
14	QPA00500705	POLY BAG	
15	SS47919-00B	KEY ASSEMBLY	
16	SS22994-00A	OUTER CASE(P)	
17	SS412715-001	W.LABEL	
⚠ 18	QMP1C08-250	POWER CORD	
⚠ 18	QMPL018-250-R	POWER CORD	
19	SS46088-005	POLY BAG	x4
20	SSV3282-002	JOINT	x8
21	SSV3282-001	JOINT	x4
22	SSV2250	BAND	
23	SS35764-001	PACKING LABEL	x2
24	SS35444-00A	CASTER BAR	x4
25	SS34036-004	CASTER	x4
26	SS412028-001	CB-LOCK PIN	x4
27	SS412029-001	SB-SPRING	x4
28	SS412030-001	CBS-BRACKET	x4
29	SS35480	PACKING LABEL	x2
30	—	—	
31	SS22994-001	OUTER CASE	
32	PRD30413-01-04	AIR CAP BAG	
33	QQR0675-001	CLAMP FILTER	x2
34	SS35897-001	LABEL	x4
36	QPA02503505	POLY BAG	
37	SS961370-001	SHEET	
38	SS35896-001	BOTTOM SHEET	
39	SS35824-00A	PROTECTOR	x12 Corrugated paper/Polyethylene bag (inserted in the magazine)
S1	QYSPSPD5010Z	SCREW	M5 x 10, x12
S2	QYSSSP2606Z	SCREW	M2.6 x 6, x8
S3	QYSPSPD3006Z	SCREW	M3 x 6, x4